A Complete Bibliography of Publications in *Contemporary Physics*

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29 May 2024
Version 1.35

Title word cross-reference

$100 [4158]. **$11.95** [4073]. **$120.00** [4201]. **$125.00** [4234, 4216]. **$135** [4206, 4079]. **$145** [4061]. **$148.00** [4096]. **$156.00** [4252]. **$156.35** [4242]. **$159** [4241, 4260]. **$159.00** [4140, 4173, 4150, 4144, 4142]. **$168.00** [3996]. **$175** [4172]. **$190** [4241, 4189, 4260, 4136]. **$190.00** [4251, 4173, 4249, 4169, 4170, 4174]. **$195.00** [4250]. 2 [2696, 3666]. **$22.50** [555]. **$24.99** [4105]. **$28.00** [4132, 4024, 4200]. 3 [2779, 3328, 3781, 3145, 2223]. $3 + 1$ [3185]. **$32.00** [4143]. **$38/£** [4114]. 4 [3432, 4343]. **$40** [4233]. **$40.00** [4244]. **$45.00** [4095]. **$48.00** [4070]. **$50** [4233]. **$50.00** [4244]. **$64** [4283]. **$68.00** [4010, 4086]. **$69.95** [4186]. **$69.99** [4146]. **$7.00** [662]. **$78.00** [4098, 4067]. **$78/£** [4114]. **$79.99** [4254, 4107]. **$84.99** [4130]. **$88.00** [4029]. **$90.00** [4201]. **$95** [4131]. **$95.00** [4139]. **$98** [4108]. **$98.00** [4068]. ^{28} [2892]. ^{3} [730, 1107]. ^{4} [1737]. $^{(R)}$ [3438]. $_{2}$ [1139, 4180]. $_{3}$ [4180]. $\frac{+}{3}$ [1642]. $_{4}$ [4180]. $_{c}$ [1580]. a [3726]. α [2177, 2165]. β [141]. $\mathcal{PT}$ [2138]. $E = mc^2$ [4067]. Λ [4076, 3222]. M [3420].

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[3075, 3168, 2735, 2872, 2755, 3502, 4248, 2766, 3083, 3245, 3165, 2791, 2841, 2541, 2999, 3036, 3047, 4072, 4178, 4190, 4198, 4252, 2776, 3118, 2965, 3279, 3494, 3501, 3450, 3452, 4081, 4235, 4269, 2693, 2660, 2800, 3054, 3204, 3407, 2887, 3126, 3205, 4085, 4108, 4068, 4119, 4196, 3184, 4242, 4250, 2850, 3081, 3074, 3099, 4187, 2538, 2820, 3046, 3196, 3431, 3143, 3233, 3366, 2670, 3024, 2771, 3050, 2898, 4165, 3071, 3169, 3303, 3398, 3492, 2524, 2716, 3510, 3128, 3274, 3497, 3382, 2703, 3080, 3005, 2808, 4157, 3230, 3210, 3446, 4186, 2539, 3340, 3423, 2682, 2526, 3026, 3003, 3424]. **researcher** [3189, 3511, 2680, 3015, 3162, 3447, 3208, 3206, 3367, 3030, 2685, 3084, 3145, 3031, 3259, 3232, 3307, 3449, 3486, 4200, 4205, 4224, 3065, 2622, 3430, 2839, 3070, 2652, 3272, 2651, 2432, 2784, 2712, 3127, 3033, 3012, 4122, 4197, 3209, 3213, 3094, 3332, 2780, 2624, 2835, 2874, 2837, 2834, 2760, 2750, 2880, 3062, 3119, 3063, 3172, 3409, 4054, 4083, 4189, 2580, 3256, 3347, 3402, 2546, 3414, 3476, 3489, 4255, 4219, 4276, 4166, 4167, 2759, 3138, 3346, 2725, 2557, 4199, 2701, 2896, 2741, 3228, 3461, 4253, 4265, 4266, 2879, 3148, 3059, 3146, 3141, 3319, 3362, 3339, 3391, 3439]. **researcher** [4063, 4220, 4174, 2422, 2530, 2758, 2398, 2400, 2619, 3191, 3185, 3278, 3508, 3136, 2799, 3147, 2807, 2826, 2654, 3087, 3032, 2665, 2666, 2832, 3170, 3306, 3484, 3475, 3474, 3495, 4058, 4116, 4067, 4172, 4215, 3397, 3067, 3267, 3300, 3348, 4111, 4185, 4168, 2547, 2882, 2852, 2586, 2769, 4056, 4231, 4118, 4052, 4235, 4257, 4259, 4108, 4119, 4157, 4159, 4160, 4121, 4169, 4170, 4234, 3476, 4077, 4166, 4167, 4260, 4253]. **researcher.** [4063]. **researcher/scientist** [3348]. **researchers** [2921, 2989, 2596, 2927, 3051, 2458, 2486, 2659, 2485, 2828, 3011, 2425, 2868, 2955, 2865, 2293, 2866, 2945, 2948, 2939, 2988, 2931, 2907, 2341, 2342, 2421, 2563, 2494, 3004, 2930, 2366, 2954, 3007, 2597, 2489, 2674, 2566, 2609, 2816, 2706, 2918, 3013, 4283, 2932, 2340, 2351, 2461, 2476, 2616, 2525, 2902, 3187, 3186, 3182, 3454, 2929, 2649, 2653, 2743, 2739, 2803, 2940, 2884, 2946, 2998, 3432, 2869, 2295, 2467, 2332, 2815, 2924, 2943, 2909, 2416, 2419, 3014, 2925, 3404, 3410, 3440, 3482, 3441, 3481, 3483, 3504, 3503, 2723, 2451, 2399, 2444, 2831, 2894, 2454, 2470, 2915, 2920]. **researchers** [2967, 2919, 2704, 4107, 3114, 4187]. **reservoirs** [914]. **resistance** [607, 4262]. **resistivity** [1210]. **resolution** [2382, 1967, 3727, 657, 4224, 1076, 1203, 352, 1120, 3537, 3795]. **Resolved** [2288, 1736]. **Resolving** [4195, 4013]. **Resonance** [3373, 2975, 3026, 2419, 2592, 1459, 631, 2699, 1225, 1934, 818, 872, 359, 369, 47, 839, 1421, 2285]. **Resonances** [831, 3566]. **Resonant** [1356, 1677]. **Resonant-bar** [1356]. **resonators** [3743]. **resource** [776]. **respectable** [2089]. **results** [1529, 2126, 3593]. **Retelling** [1917]. **Retirement** [2787]. **return** [3419]. **Revealed** [3302, 3722]. **reversal** [1726, 1647]. **Reversibility** [3023]. **Review** [3670, 3806, 3834, 3817, 3757, 3776, 3767, 3807, 3766, 3942, 4133, 4132, 3622, 3711, 3953, 4120, 4078, 4060, 4106, 3878, 4149, 3520, 3651, 3741, 3841, 4010, 3909, 4057, 3764, 3763, 1121, 3618, 3986, 3988, 3790, 3868, 3805, 3774, 3946, 4016, 4062, 4110, 4211, 4137, 4225, 4286, 3885, 3896, 2893, 2772, 3560, 3523, 3574, 3721, 3583, 3719, 3541, 3559, 3830, 4082, 1265, 1191, 440, 662, 675, 848,

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[2348] Dr. D. G. C. Jones. *Concepts in Quantum Mechanics*, by V. Swarup Mathur and S. Singh, Scope: comprehensive textbook. Level: advanced undergraduate and postgraduate. *Contemporary Physics*, 51(2):184, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2355] Professor Alan Michette. *Interactions of Photons and Neutrons with Matter*, by S.-H. Chen and M. Kotlarchyk, Scope: textbook. Level: beginning graduates and above, scientists working at synchroton and neutron facilities. *Contemporary Physics*, 51(2):189, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2356] Dr. P. J. Bussey. *Fermilab: Physics*, The Frontier and Megascience, by L. Hoddeson, A. Kolb and C. Westfall, Scope: historical. Level: general reader. *Contemporary Physics*, 51(2):190, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2367] J. Matthewman. *A History of the Science and Politics of Climate Change*, by B. Bolin, Scope: documentary. Level: general reader. *Contemporary Physics*, 51(3):278–279, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2374] Dr. G. Barton. *Angular Momentum in Quantum Physics*, by L. C. Biedenharn and J. D. Louck, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(3):283–284, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2385] Professor Mario Bertolotti. *Geometrical and Trigonometric Optics*, by E. L. Dereniak and T. D. Dereniak, Scope: textbook. Level: students. *Contemporary Physics*, 51(4):365, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2386] Professor Mario Bertolotti. *Terahertz Spectroscopy: Principles and Applications*, edited by S. L. Dexheimer, Scope: textbook. Level: beginners. *Contemporary Physics*, 51(4):366, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2387] Professor Barrie W. Jones. *Strategies of Life Detection*, edited by O. Botta, J. L. Bada, J. Gómez-Elvira, E. Javaux, F. Selsis and R Summons, Scope: workshop papers. Level: postgraduates/specialists/ advanced hobbyists. *Contemporary Physics*, 51(4):366–367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2388] Dr. Manuel Vogel. *Handbook of Charged Particle Optics*, 2nd edition, edited by J. Orloff, Scope: handbook/reference. Level: experts/advanced students. *Contemporary Physics*, 51(4):367, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2393] Professor N. Riley. *The Detonation Phenomenon*, by J. H. S. Lee, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):372–373,

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[2396] Dr. Oleg Kolosov. *Biophotonics: Biological and Medical Physics*, Biomedical Engineering, edited by L. Pavesi and P. M. Fauchet, Scope: textbook. Level: graduate students in final year to academics. *Contemporary Physics*, 51(4):375, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2399] Professor Stig Stenholm. *Quantum Computing without Magic*, by Zdzislaw Meglicki, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(4):377–378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2400] Professor Stig Stenholm. *Information*, Physics and Computation, by Marc Mézard and Andrea Montanari, Scope: monograph. Level: specialist researcher. *Contemporary Physics*, 51(4):378, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2401] Professor Stig Stenholm. *Advanced Condensed Matter Physics*, by L. M. Sander, Scope: textbook. Level: advanced undergraduate and beginning graduate. *Contemporary Physics*, 51(4):378–379, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2402] Professor D. G. C. Jones. *Quantum Transport. Introduction to Nanoscience*, by Y. V. Nazarov and Y. M. Blanter, Scope: general introduction. Level: postgraduate students and physicists. *Contemporary Physics*, 51(4):379–380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2403] Professor S. J. Blundell. *A Paradigm Called Magnetism*, by S. Dattagupta, Scope: general introduction. Level: postgraduate. *Contemporary Physics*, 51(4):380, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2410] Professor J. R. Sambles. *Microstructural Randomness and Scaling in Mechanics of Materials*, by M. Ostoja-Starzewski, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(5):440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyd:2010:LTL

[2411] Professor T. J. M. Boyd. *Let there be Light*, by A. Montwill and A. Breslin, Scope: monograph. Level: general reader, undergraduate, graduate physics students. *Contemporary Physics*, 51(5):440–441, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2412] Professor John E. Carroll. *Metamaterials: Critique and Alternatives*, by B. A. Munk, Scope: research monograph. Level: masters degree and above. *Contemporary Physics*, 51(5):441–444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2413] Dr. Manuel Vogel. *Superconductivity — A very short introduction*, by S. Blundell, Scope: scientific essay. Level: interested reader. *Contemporary Physics*, 51(5):444, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Athorne:2010:ATD

[2414] Dr. Chris Athorne. *Algebraic Theory of Differential Equations*, edited by M. A. H. MacCallum and A. V. Mikhailov, Scope: workshop proceedings. Level: postgraduate/research level. *Contemporary Physics*, 51(5): 444–445, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2415] Professor John J. Quenby. *Foundations of High-Energy Astrophysics*, by M. Vietri, Scope: textbook and reference. Level: postgraduate, advanced undergraduate and specialist. *Contemporary Physics*, 51(5):445–446, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2416] Professor Miguel A. F. Sanjuán. *Microscopic Chaos*, Fractals and Transport in Nonequilibrium Statistical Mechanics, Advanced Series in Nonlinear Dynamics, Vol. 24, by R. Klages, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):446–447, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2417] Dr. Tony Sudbery. *Physics and the Art of Dance: Understanding Movement*, by K. Laws and A. Sugano, photographs by M. Swope and G. Schiavone, Scope: monograph. Level: general reader and undergraduate. *Contemporary Physics*, 51(5):447–448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2010:ILM

[2418] Professor Miguel A. F. Sanjuán. *An Introduction to Lagrangian Mechanics*, by A. J. Brizard, Scope: textbook. Level: undergraduate and graduate students. *Contemporary Physics*, 51(5):448, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2419] Professor Miguel A. F. Sanjuán. *Stochastic Resonance. From Suprathreshold Stochastic Resonance to Stochastic Signal Quantization*, by M. D. McDonnell, N. G. Stocks, C. E. M. Pearce and D. Abbott, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):448–449, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zetie:2010:SBG

[2420] Dr. K. P. Zetie. *Stargazing Basics: Getting Started in Recreational Astronomy*, by P. E. Kinzer, Scope: introductory guide. Level: general reader. *Contemporary Physics*, 51(5):449–450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2010:SQB

[2421] Professor Mark Fox. *Semiconductor Quantum Bits*, edited by F. Henneberger and O. Benson, Scope: research monograph. Level: graduate students and researchers. *Contemporary Physics*, 51(5):450, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2010:QHE

[2422] Professor Allan Solomon. *Quantum Hall Effects. Field Theoretical Approach and Related Topics*, 2nd ed., by Z. F. Ezawa, Scope: encyclopedic compendium. Level: student and researcher. *Contemporary Physics*, 51 (5):450–451, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:UHD

[2423] Professor Stig Stenholm. *The Universe in a Helium Droplet*, by G. E. Volovik, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):451–452, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:ALV

[2424] Professor Stig Stenholm. *Astrophysical Lasers*, by V. Letokhov and S. Johansson, Scope: monograph. Level: research level. *Contemporary Physics*, 51(5):452–453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bohmer:2010:IQE

[2425] Dr. C. Böhmer. *Introduction to Quantum Effects in Gravity*, by V. F. Mukhanov and S. Winitzki, Scope: textbook. Level: undergraduate and graduate students, researchers. *Contemporary Physics*, 51(5):453, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:NVS

[2426] Dr. Manuel Vogel. *Nothing: A Very Short Introduction*, by F. Close. Scope: scientific essay. Level: — interested reader. *Contemporary Physics*, 51(5):453–454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:RBF

[2427] Assistant Professor Nikolaos E. Myridis. *Radial Basis Functions*, by M. D. Buhmann, Scope: monograph. Level: general audience, mathematics theorists. *Contemporary Physics*, 51(5):454, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Duxbury:2010:JTE

[2428] Professor Geoffrey Duxbury. *The Jahn–Teller Effect*, by I. B. Bersuker, Scope: monograph. Level: advanced/research. *Contemporary Physics*, 51(5):455, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hobson:2010:PHN

[2429] Professor Peter Hobson. *Polarization Holography*, by L. Nikolova and P. S. Ramanujam, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):455–456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Martin:2010:YHP

[2430] Professor Alan Martin. *You are Here: A Portable History of the Universe*, by C. Potter, Scope: plain text. Level: general reader. *Contemporary Physics*, 51(5):456, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2010:AQG

[2431] Professor Ian D. Lawrie. *Approaches to Quantum Gravity*, edited by Daniele Oriti, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(5):457, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2010:SCM

[2432] Dr. Matt Probert. *Symmetry and Condensed Matter Physics — A Computational Approach*, by M. El-Batanouny and F. Wooten, Scope: textbook. Level: active researcher at postgraduation and above. *Contemporary Physics*, 51(5):457–458, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BCE

[2433] Dr. Stephen H. Ashworth. *The Behaviour of Chemical Elements in Stars*, by C. Jascheck and M. Jasheck, Scope: reference work. Level: postgraduate/specialist. *Contemporary Physics*, 51(5):458–459, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:GVS

[2434] Professor Ken Pounds. *Galaxies: A Very Short Introduction*, by J. Gribbin, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(5):459–460, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Matravers:2010:FBB

[2435] Professor David Matravers. *Finding the Big Bang*, edited by P. J. E. Peebles, L. A. Page, Jr. and R. B. Partridge, Scope: history of science. Level: general reader with an interest in cosmology to specialist in history or philosophy of science. *Contemporary Physics*, 51(5):460–463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2010:BEC

[2436] Dr. J. Rogel-Salazar. *Bose–Einstein Condensation in Dilute Gases*, 2nd ed., by C. J. Pethick and H. Smith. Scope: textbook. Level: advanced undergraduate and postgraduate. *Contemporary Physics*, 51(5):463, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2010:CIN

[2437] Professor R. S. MacKay. *The Correspondence of Isaac Newton*, Volume V, 1709–1713, edited by A. Rupert Hall and L. Tilling, Scope: reference. Level: specialist in history of science. *Contemporary Physics*, 51(5): 463–464, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:SMB

[2438] Professor Peter V. E. McClintock. *Sirius Matters*, by N. Brosch, Scope: monograph. Level: undergraduates, graduate students, amateur astronomers, educated public. *Contemporary Physics*, 51(5):464–465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2010:ONS

[2439] Professor S. J. Blundell. *Observing the Night Sky with Binoculars*, by S. J. O'Meara, Scope: popular astronomy. Level: general. *Contemporary Physics*, 51(5):465, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Roussev:2010:SSM

[2440] Professor Ilia I. Roussev. *Solar and Stellar Magnetic Activity*, by C. Schrijver and C. Zwaan, Scope: textbook. Level: specialist, postgraduate, graduate and undergraduate. *Contemporary Physics*, 51(5):466,

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Roussev:2010:CDH

[2441] Professor Ilia I. Roussev. *Cool Discs, Hot Flows: The Varying Faces of Accreting Compact Objects*, edited by M. Axelsson, Scope: conference proceedings. Level: specialist, postgraduate and graduate. *Contemporary Physics*, 51(5):466–467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:APP

[2442] Dr. Robert C. Smith. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by H. Bradt, Scope: textbook. Level: senior undergraduate/beginning postgraduate. *Contemporary Physics*, 51(5):467, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sangoro:2010:PLC

[2443] Joshua R. Sangoro. *Polymers, Liquids and Colloids in Electric Fields*, edited by Y. Tsori and U. Steiner, Scope: textbook. Level: specialist and non-specialist. *Contemporary Physics*, 51(5):467–468, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2010:QCI

[2444] Dr. S. C. Tiwari. *From Quantum Cohomology to Integrable Systems*, by M. A. Guest, Scope: textbook. Level: graduate, researchers. *Contemporary Physics*, 51(5):468–469, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palffy:2010:NEA

[2445] Adriana Pálffy. Nuclear effects in atomic transitions. *Contemporary Physics*, 51(6):471–496, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gerry:2010:POQ

[2446] Christopher C. Gerry and Jihane Mimih. The parity operator in quantum optical metrology. *Contemporary Physics*, 51(6):497–511, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zavrtanik:2010:UHE

[2447] Danilo Zavrtanik. Ultra high energy cosmic rays. *Contemporary Physics*, 51(6):513–529, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QQ

[2448] P. J. Bussey. Quantum quicksands. *Contemporary Physics*, 51(6):531–534, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:SEL

[2449] Professor Ken Pounds. *Space Enterprise — Living and Working Offworld in the 21st Century*, by Philip R. Harris, Scope: source book. Level: general reader and specialist. *Contemporary Physics*, 51(6):535, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

vanderWeele:2010:LDU

[2450] Professor Ko van der Weele. *The Light/Dark Universe. Light from Galaxies*, Dark Matter and Dark Energy, by J. M. Overduin and P. S. Wesson, Scope: monograph. Level: informed reader interested in astronomy. *Contemporary Physics*, 51(6):535–536, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2010:PMN

[2451] Professor Stig Stenholm. *Philosophy of Mathematics and Natural Science*, by H. Weyl. Source: monograph. Level. researchers and advanced students. *Contemporary Physics*, 51(6):537–539, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2010:TGF

[2452] Emeritus Professor Derry W. Jones. *Turbulence*, by Giles Foden, Scope: wartime meteorology and fiction. Level: general reader. *Contemporary Physics*, 51(6):539–540, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:FSP

[2453] Dr. Manuel Vogel. *Future Spacecraft Propulsion Systems*, 2nd ed., by P. A. Czysz and C. Bruno, Scope: electric rockets explained, IAC, propulsion space, spacecraft engines. Level: advanced students and experts on the field. *Contemporary Physics*, 51(6):540–541, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vedral:2010:QSM

[2454] Professor Vlatko Vedral. *Quantum Statistical Mechanics*, by W. C. Schieve and L. P. Horwitz, Scope: basic theory, with applications from

quantum optics to quantum gravity. Level: researchers and advanced students. *Contemporary Physics*, 51(6):541–542, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2010:QIO

[2455] Assistant Professor Nikolaos E. Myridis. *Quantum Information*, Oxford Master Series in Physics, by Stephen M. Barnett, Scope: quantum information, quantum computing and the foundations of quantum theory. Level: undergraduate, graduate and postgraduate. *Contemporary Physics*, 51(6):542–543, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wallis:2010:CIK

[2456] Dr. Max Wallis. *Cosmic Imagery: Key Images in the History of Science*, by John D. Barrow, Scope: key concepts. Level: general reader. *Contemporary Physics*, 51(6):543–544, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2010:CSP

[2457] Dr. M. Jamil. *Computer Solutions in Physics: With Applications in Astrophysics, Biophysics, Differential Equations, and Engineering*, by Steve VanWyk, Scope: monograph. Level: undergraduate students. *Contemporary Physics*, 51(6):544–545, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2010:WMS

[2458] Professor M. Bertolotti. *Waves in Metamaterials*, by L. Solymar and E. Shamonina, Scope: textbook. Level: researchers and advanced students. *Contemporary Physics*, 51(6):545–546, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:UMB

[2459] Dr. Peter J. Bussey. *Universe or Multiverse?*, by Bernard Carr, Scope: review. Level: physicists and philosophers advanced undergraduate and above. *Contemporary Physics*, 51(6):546–550, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2010:NPT

[2460] Dr. Monica Pierri-Galvao. *The New Physics: For the Twenty-first Century*, by Gordon Fraser, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 51(6):550–551, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:DSO

[2461] Professor Peter V. E. McClintock. *Dynamics of Self-Organized and Self-Assembled Structures*, by Rashmi C. Desai and Raymond Kapral, Scope: monograph. Level: professional physicists, researchers, Ph.D. students, advanced undergraduates. *Contemporary Physics*, 51(6):551–552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:MTI

[2462] Dr. Stephen H. Ashworth. *Measured Tones: The Interplay of Physics and Music*, 3rd edition, by Ian Johnston, Scope: monograph. Level: general reader. *Contemporary Physics*, 51(6):552, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2010:BSA

[2463] Dr. Stephen H. Ashworth. *Building Scientific Apparatus*, 4th edition, by John H. Moore, Christopher C. Davis, Michael A. Coplan and Sandra E. Greer, Scope: reference. Level: anyone using, designing, modifying or specifying scientific apparatus. *Contemporary Physics*, 51(6): 552–553, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:FMI

[2464] Dr. Peter R. T. Munro. *Fundamentals of Medical Imaging*, by Paul Suetens, Scope: textbook and reference. Level: undergraduate, graduate and practicing scientist/engineer. *Contemporary Physics*, 51(6): 553–554, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2010:CTP

[2465] Dr. Peter R. T. Munro. *Computed Tomography: From Photon Statistics to Modern Cone-Beam CT*, by Thorsten M. Buzug, Scope: textbook and reference. Level: graduate and practising scientist/engineer. *Contemporary Physics*, 51(6):554–555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milonni:2010:ENF

[2466] Dr. Peter W. Milonni. *Electronic Noise and Fluctuations in Solids*, by Sh. Kogan, Scope: general reader, postgraduate and specialist. Level: anyone interested in the theory of fluctuation phenomena. *Contemporary Physics*, 51(6):555, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2010:FEG

[2467] Professor Ken Pounds. *Formation and Evolution of Galaxy Bulges (IAU S245), Proceedings of the IAU Symposia and Colloquia*, edited by Martin Bureau, E. Athanassoula, and Beatriz Barbuy Scope: wide-ranging review. Level: graduate students and active researchers. *Contemporary Physics*, 51(6):556, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2010:SSC

[2468] Dr. Robert C. Smith. Stellar Spectral Classification, by Richard O. Gray and Christopher J. Corbally, Scope: monograph and reference book. Level: advanced undergraduates, postgraduates and specialists. *Contemporary Physics*, 51(6):556–557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wickramasinghe:2010:IPI

[2469] Professor N. C. Wickramasinghe. An Introduction to the Physics of Interstellar Dust, by E. Krugel, Scope: textbook. Level: workers in the field of interstellar dust. *Contemporary Physics*, 51(6):557, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:VOI

[2470] Dr. Manuel Vogel. In Vivo Optical Imaging of Brain Function, 2nd ed., edited by Ron D. Frostig, Scope: monograph. Level: advanced graduate and postgraduate researchers. *Contemporary Physics*, 51(6):557–558, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2010:QFL

[2471] Dr. Peter J. Bussey. *The Quantum Frontier: The Large Hadron Collider*, by D. Lincoln, Scope: general interest. Level: general readership, undergraduate. *Contemporary Physics*, 51(6):558–559, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2010:PMM

[2472] Dr. Matt Probert. *Physics Meets Mineralogy: Condensed-Matter Physics in Geosciences*, edited by Hideo Aoki, Yasuhiko Syono and Russell J. Hemley, Scope: geophysicists, mineralogists, condensed matter physicists. Level: graduate level textbook. *Contemporary Physics*, 51(6): 559, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Martin:2010:OLU

[2473] Professor Alan Martin. *Origins of Life in the Universe*, by R. Jastrow and M. Rampino, Scope: illustrated text for non-science students. Level: general reader. *Contemporary Physics*, 51(6):559–560, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:EGT

[2474] Professor Peter V. E. McClintock. *Engineering the Guitar: Theory and Practice*, by Richard Mark French, Scope: monograph. Level: undergraduate physicists and engineers, musicologists, guitar builders and players. *Contemporary Physics*, 51(6):560–561, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2010:ISP

[2475] Dr. Manuel Vogel. *Introduction to Statistical Physics*, 2nd ed., by Kerson Huang, Scope: textbook. Level: undergraduate students. *Contemporary Physics*, 51(6):561, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2010:PSD

[2476] Professor Peter V. E. McClintock. *Planetary Systems: Detection, Formation and Habitability of Extrasolar Planets*, by M. Ollivier, T. Encrenaz, F. Roques, F. Selsis and F. Casoli, Scope: monograph. Level: undergraduate and postgraduate physicists and researchers. *Contemporary Physics*, 51(6):561–562, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Foreman:2010:SN

[2477] Matthew R. Foreman. Short notices. *Contemporary Physics*, 51(6):562–563, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anonymous:2010:EB

[2478] Anonymous. Editorial board. *Contemporary Physics*, 51(6):ebi, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Centrella:2011:MBH

[2479] Joan Centrella, John Baker, Bernard Kelly, and James van Meter. Merging black holes. *Contemporary Physics*, 52(1):1–14, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carter:2011:ATC

[2480] Richard G. Carter. Acceleration technologies for charged particles: an introduction. *Contemporary Physics*, 52(1):15–41, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Eling:2011:GGT

[2481] Christopher Eling, Itzhak Fouxon, and Yaron Oz. Gravity and a geometrisation of turbulence: an intriguing correspondence. *Contemporary Physics*, 52(1):43–54, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nugent:2011:MPT

[2482] Keith A. Nugent. The measurement of phase through the propagation of intensity: an introduction. *Contemporary Physics*, 52(1):55–69, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:QAL

[2483] Peter V. E. McClintock. Quantum aspects of life. *Contemporary Physics*, 52(1):71–73, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2011:WOC

[2484] Dr. Manuel Vogel. *Waves in Oceanic and Coastal Waters*, by Leo H. Holthuijsen, Scope: textbook. Level: advanced undergraduate and above. *Contemporary Physics*, 52(1):75, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2011:OPR

[2485] Professor Mario Bertolotti. *Optical Pattern Recognition*, edited by F. T. S. Yu and S. Jutamulia, Scope: review. Level: graduate students and researchers. *Contemporary Physics*, 52(1):75–76, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2011:EDW

[2486] Professor Mario Bertolotti. *The Essence of Dielectric Waveguides*, by C. Yeh and F. Shimabukuro, Scope: overview. Level: researchers and students in optical communications, photonics and applied electromagnetics. *Contemporary Physics*, 52(1):76–77, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2011:ESB

[2487] Dr. Matt Probert. *Electronic Structure: Basic Theory and Practical Methods*, by Richard M. Martin, Scope: graduate level textbook. Level: theoretical materials scientists/condensed matter physicists/computational chemists. *Contemporary Physics*, 52(1):77, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tarleton:2011:ASM

[2488] Dr. Edmund Tarleton. *Applied Solid Mechanics*, by P. Howell, G. Kozyreff and J. Ockendon, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 52(1):77–79, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2011:IPP

[2489] Dr. M. Jamil. *An Introduction to the Physics of Particle Accelerators*, by Mario Conte and William W. MacKay, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 52(1):79–80, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:QMB

[2490] Dr. Peter J. Bussey. *Quantum Mechanics with Basic Field Theory*, by Bipin R. Desai, Scope: course book. Level: graduate. *Contemporary Physics*, 52(1):80, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2011:MPE

[2491] Professor Michael Belsley. *Mrs. Perkins's Electric Quilt and Other Intriguing Stories of Mathematical Physics*, by Paul J. Nahin, Scope: general. Level: undergraduate. *Contemporary Physics*, 52(1):80–81, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tiwari:2011:HSM

[2492] Dr. S. Tiwari. *Hilbert Space Methods in Quantum Mechanics*, by Werner O. Amrein, Scope: handbook. Level: undergraduate. *Contemporary Physics*, 52(1):81–82, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:UOD

[2493] Professor Peter V. E. McClintock. *The Universe — Order Without Design*, by Carlos I. Calle, Scope: monograph. Level: general reader. *Contemporary Physics*, 52(1):82–83, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2011:MMM

[2494] Dr. A. M. Fox. *Magnetism and Magnetic Materials*, by J. M. D. Coey, Scope: handbook. Level: advanced undergraduates, postgraduates and researchers. *Contemporary Physics*, 52(1):83–84, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:DRU

[2495] Dr. Peter J. Bussey. *Decoding Reality: The Universe as Quantum Information*, by Vlatko Vedral, Scope: monograph. Level: general reader. *Contemporary Physics*, 52(1):84–85, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sheldon:2011:AAN

[2496] Professor Eric Sheldon. *Alex's Adventures in Numberland*, by Alex Bellos, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(1):85–86, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milonni:2011:SPP

[2497] Dr. Peter W. Milonni. *Statistical Physics of Particles*, by Mehran Kardar, Scope: textbook. Level: advanced undergraduate and graduate. *Contemporary Physics*, 52(1):86–87, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:QRT

[2498] Dr. Peter J. Bussey. *Quantum Reality: Theory and Philosophy*, by Jonathan Allday, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(1):87, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:PCR

[2499] Assistant Professor Nikolaos E. Myridis. *Perspectives in Computation*, by Robert Geroch, Scope: theory of computation. Level: graduate and advanced undergraduate students, scientists. *Contemporary Physics*, 52 (1):87–88, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:GFD

[2500] Dr. Amgad Salama. *Geological Fluid Dynamics: Sub-Surface Flow and Reactions*, by O. M. Phillips, Scope: textbook. Level: graduate. *Contemporary Physics*, 52(1):88–89, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2011:RSS

[2501] Dr. Robert C. Smith. *The Rotation of Sun and Stars*, by J.-P. Rozelot and C. Neiner/*Physics, Formation and Evolution of Rotating Stars*, by A. Maeder, Scope: monograph and reference. Level: postgraduates and specialists/scope: monograph. Level: postgraduates, specialists and advanced undergraduates. *Contemporary Physics*, 52(1):89–91, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2011:MTS

[2502] Dr. Stephen H. Ashworth. *Modern Thermodynamics with Statistical Mechanics*, by Carl S. Helrich, Scope: textbook. Level: advanced undergraduate/postgraduate. *Contemporary Physics*, 52(1):91–92, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stoneham:2011:CNE

[2503] Emeritus Massey Professor Marshall Stoneham. *Chirality at the Nanoscale*, edited by David B. Amabilino, Scope: monograph. Level: graduate student/research scientist. *Contemporary Physics*, 52(1):92–93, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ellis:2011:AST

[2504] Richard Ellis. *Astronomical Spectrographs and Their History*, by John J. Hearnshaw, Scope: monograph. Level: science historians, general scientific, undergraduates. *Contemporary Physics*, 52(1):93, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McFarland:2011:CDS

[2505] John McFarland. *The Cambridge Double Star Atlas*, by J. Mullaney and W. Tirion, Scope: handbook. Level: general reader and specialists. *Contemporary Physics*, 52(1):93–94, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:SFS

[2506] Emeritus Professor Derry W. Jones. *Seeing Further: The Story of Science and the Royal Society*, edited by Bill Bryson, Scope: articles on history, philosophy and a range of science. Level: general reader. *Contemporary Physics*, 52(1):94–95, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2011:INS

[2507] Dr. Manuel Vogel. *Introduction to Nuclear Science*, by J. C. Bryan, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(1): 95–96, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:MWH

[2508] Dr. Peter J. Bussey. *The Many Worlds of Hugh Everett III*, by Peter Byrne, Scope: biography. Level: undergraduate physicist and philosopher and above. *Contemporary Physics*, 52(1):96–97, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Carroll:2011:SOT

[2509] Professor John E. Carroll. *Superstrings and Other Things: A Guide to Physics*, 2nd ed., by Carlos I. Calle, Scope: manual. Level: general scientific reader. *Contemporary Physics*, 52(1):97, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2011:BSP

[2510] Professor Miguel A. F. Sanjuán. *Basics of Statistical Physics*, by Harald J. W. Müller-Kirsten, Scope: textbook, monograph. Level: undergraduate and graduate students. *Contemporary Physics*, 52(1):97–98, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2011:CTP

[2511] Professor Miguel A. F. Sanjuán. *Concepts in Thermal Physics*, 2nd ed., by Stephen J. Blundell and Katherine M. Blundell, Scope: handbook. Level: undergraduate and graduate students. *Contemporary Physics*, 52 (1):98, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:SCC

[2512] Assistant Professor Nikolaos E. Myridis. *Scientific Computing with Case Studies*, by Dianne P. O'Leary, Scope: textbook. Level: undergraduate and early graduate students. *Contemporary Physics*, 52(1):98–99, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:UFF

[2513] Dr. Amgad Salama. *Understanding Fluid Flow*, by Grae Worster, Scope: general interest. Level: undergraduate. *Contemporary Physics*, 52(1): 99–100, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Krucken:2011:ISS

[2514] Reiner Krücken. Introduction to shell structure in exotic nuclei. *Contemporary Physics*, 52(2):101–120, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pettinelli:2011:RWT

[2515] Elena Pettinelli, Pier Matteo Barone, Elisabetta Mattei, and Sebastian Emanuel Lauro. Radio wave techniques for non-destructive archaeological investigations. *Contemporary Physics*, 52(2):121–130, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Keeling:2011:EPC

[2516] Jonathan Keeling and Natalia G. Berloff. Exciton–polariton condensation. *Contemporary Physics*, 52(2):131–151, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:DMP

[2517] Assistant Professor Nikolaos E. Myridis. *Discrete Mathematics: Proof*, Structures, and Applications, 3rd edn., by Rowan Garnier and John Taylor, Scope: text-book. Level: undergraduate computer science students. *Contemporary Physics*, 52(2):153, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:MMU

[2518] Assistant Professor Nikolaos E. Myridis. *The Mathematical Mechanic: Using Physical Reasoning to Solve Problems*, by Mark Levi, Scope: handbook. Level: students, scientists, physicists, mathematicians. *Contemporary Physics*, 52(2):154, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:EPD

[2519] D. G. C. Jones. *The Edge of Physics: Dispatches from the Frontiers of Cosmology*, by Anil Ananthaswamy, Scope: synoptic picture of experimental modern astronomy, cosmology and particle physics. Level: general readers, a level and undergraduate physicists, specialists in other fields. *Contemporary Physics*, 52(2):155, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salama:2011:GVP

[2520] Dr. Amgad Salama. *Good Vibrations: The Physics of Music*, by Barry Parker, Scope: textbook. Level: general reader. *Contemporary Physics*,

52(2):155–156, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2011:IRC

[2521] Professor J. Rogel-Salazar. *Interest Rates and Coupon Bonds in Quantum Finance*, by Belal E. Baaquie, Scope: monograph. Level: specialist. *Contemporary Physics*, 52(2):156, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2011:MMF

[2522] Professor S. J. Blundell. *Micromagnetism and the Microstructure of Ferromagnetic Solids*, by Helmut Kronmüller and Manfred Fähnle, Scope: monograph. Level: researcher. *Contemporary Physics*, 52(2):157, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Linton:2011:AMM

[2523] Professor Chris Linton. *Applied Mathematical Methods in Theoretical Physics*, 2nd edn., by Michio Masujima, Scope: reference. Level: undergraduates, postgraduates, engineers. *Contemporary Physics*, 52(2): 157–158, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2011:QFT

[2524] Professor Ian D. Lawrie. *Quantum Field Theory in Curved Spacetime: Quantized Fields and Gravity*, by L. Parker and D. Toms, Scope: monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(2):158–159, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2011:UQF

[2525] Professor Peter V. E. McClintock. *Ultracold Quantum Fields*, by H. T. C. Stoof, K. B. Gubbels and D. B. M. Dickerscheid, Scope: monograph. Level: researchers, postgraduate physicists and senior undergraduates. *Contemporary Physics*, 52(2):159, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McFarland:2011:TOD

[2526] John McFarland. *Theory of Orbit Determination*, by Andrea Milani and Giovanni F. Gronchi, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(2):160, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Benhamou:2011:PGGa

[2527] Mabrouk Benhamou. *P. G. de Gennes' Impact on Science: Volume I*, edited by Julien Bok, Jacques Prost and Françoise Brochard-Wyart, Scope: handbook. Level: general readership. *Contemporary Physics*, 52 (2):160–161, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2011:SCG

[2528] Dr. M. Jamil. *Scientific Computation*, by Gaston H. Gonnet and Ralf Scholl, Scope: monograph. Level: graduate level students. *Contemporary Physics*, 52(2):161–162, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2011:CNL

[2529] Dr. A. H. Harker. *Concepts of Nanochemistry*, by Ludovico Cademartiri and Geoffrey A. Ozin, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):162, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2011:QMC

[2530] Professor Allan Solomon. *Quantum Measurement and Control*, by H. M. Wiseman and G. J. Milburn, Scope: monograph. Level: postgraduate and researcher. *Contemporary Physics*, 52(2):162–163, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2011:IRJ

[2531] Dr. R. S. Shorter. *An Introduction to Relativity*, by Jayant V. Narlikar, Scope: review. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):163–164, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2011:CVP

[2532] Dr. R. S. Shorter. *Cremona Violins: A Physicist's Quest for Secrets of Stradivari*, by Kameshwar C. Wali, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(2):164, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Garrett:2011:IPM

[2533] Dr. Natalie L. Garrett. *Introduction to Physics in Modern Medicine*, 2nd edn., by Suzanne Amador Kane, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(2):164–165, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2011:DME

[2534] Dr. Giovanni Volpe. *Darwin Meets Einstein. On the Meaning of Science*, by Frans W. Saris, Scope: popular account. Level: general reader. *Contemporary Physics*, 52(2):165–166, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sambles:2011:SPP

[2535] Professor J. R. Sambles. *Symmetries in Physics: Philosophical Reflections*, edited by Katherine Brading and Elena Castellani, Scope: edited volume. Level: postgraduate. *Contemporary Physics*, 52(2):166–168, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vedral:2011:QPS

[2536] Professor Vlatko Vedral. *Quantum Processes*, Systems, and Information, by Benjamin Schumacher and Michael Westmoreland, Scope: review. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2): 168, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2011:USS

[2537] Dr. A. H. Harker. *Understanding Solid State Physics*, by Sharon Ann Holgate, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(2):169, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2011:SDH

[2538] Dr. D. G. C. Jones. *Semiconductor Devices for High-Speed Optoelectronics*, by Giovanni Ghione, Scope: monograph and review. Level: undergraduate, postgraduate and early career researcher. *Contemporary Physics*, 52(2):169–170, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Matravers:2011:PDP

[2539] Professor David Matravers. *The Primordial Density Perturbation: Cosmology*, Inflation and the Origin of Structure, by David H. Lyth and Andrew R. Liddle, Scope: monograph. Level: postgraduate, early career researcher. *Contemporary Physics*, 52(2):170–171, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Solomon:2011:NRQ

[2540] Professor Allan Solomon. *Non-relativistic Quantum Theory: Dynamics*, Symmetry and Geometry, by Kai S. Lam, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(2):171, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Garrett:2011:BAN

[2541] Dr. Natalie L. Garrett. *Biochemical Applications of Nonlinear Optical Spectroscopy*, edited by Vladislav V. Yakovlev, Scope: edited book. Level: advanced undergraduate, postgraduate and researcher. *Contemporary Physics*, 52(2):171–172, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hobson:2011:LHC

[2542] Professor Peter R. Hobson. *The Large Hadron Collider: A Marvel of Technology*, edited by Lyndon Evans, Scope: edited book. Level: general reader and non-specialists. *Contemporary Physics*, 52(2):172–173, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2011:LPD

[2543] Assistant Professor Nikolaos E. Myridis. *Linear Partial Differential Equations and Fourier Theory*, by Marcus Pivato, Scope: monograph. Level: students in mathematics and physics, lecturers. *Contemporary Physics*, 52(2):173–174, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bridges:2011:SIT

[2544] Professor Thomas J. Bridges. *Solitons, Instantons, and Twistors*, by Maciej Dunajski, Scope: review. Level: undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 52(2):174–175, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2011:CMT

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[2601] Peter Holland. *The Stability of Matter in Quantum Mechanics*, by E. H. Lieb and R. Seiringer, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(4):383–384, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2608] Eric Sheldon. *Exploring Fundamental Particles*, by Lincoln Wolfenstein and João P. Silva, Scope: monograph, general interest. Level: undergraduate, advanced undergraduate, scientist. *Contemporary Physics*, 52(5): 480–481, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2610] Ken Zetie. *A Question and Answer Guide to Astronomy*, by Pierre-Yves Bely, Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 52(5):482, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2612] Peter Kalmus. *Neutrino*, by Frank Close, Scope: review. Level: general readership, undergraduate, postgraduate, teacher, scientist. *Contemporary Physics*, 52(5):483–484, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2613] Manuel Vogel. *Cosmochemistry*, by Harry Y. McSween, Jr. and Gary R. Huss, Scope: monograph. Level: advanced undergraduate students. *Contemporary Physics*, 52(5):484, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2616] Peter V. E. McClintock. *Experimental and Computational Techniques in Soft Condensed Matter Physics*, edited by Jeffrey Olafsen, Scope: monograph. Level: researchers and postgraduate physicists. *Contemporary Physics*, 52(5):486, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2622] M. Ogilvie. *Non-Perturbative Field Theory — From Two Dimensional Conformal Field Theory to QCD in Four Dimensions*, by Yitzhak Frishman and Jacob Sonnenschein, Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(5):490–491, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2623] David Matravers. *Bayesian Logical Data Analysis for the Physical Sciences*, edited by P. C. Gregory, Scope: text book, handbook. Level: postgraduate. *Contemporary Physics*, 52(5):491–492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2624] Andrew Resnick. *Nanoscopy and Multidimensional Optical Fluorescence Microscopy*, edited by Alberto Diaspro, Scope: edited book, guide, review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 52(5):492, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Shore:2011:HPO

[2627] K. Alan Shore. *Handbook of Plastic Optics*, edited by Stefan Baumer, Weinheim. *Contemporary Physics*, 52(5):494, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2630] Timothy J. Sumner. *Particle Dark Matter*, edited by Gianfranco Bertone. *Contemporary Physics*, 52(5):496, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2632] Ian Thompson. *NIST Handbook of Mathematical Functions*, edited by Frank W. J. Olver, Daniel W. Lozier, Ronald F. Boisvert, Charles W. Clark. *Contemporary Physics*, 52(5):497–498, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2679] P. J. Bussey. *The Beautiful Invisible: Creativity, Imagination and Theoretical Physics*, by Giovanni Vignale, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(6):622–623, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2680] Alan Michette. *Introduction to XAFS. A Practical Guide to X-ray Absorption Fine Structure Spectroscopy*, by Grant Bunker, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 52(6):623, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2682] John McFarland. *Astrophysics and Twentieth-Century Astronomy to 1950: Part A*, edited by O. Gingerich, Scope: edited book. Level: pre-university, undergraduate, postgraduate, researcher. *Contemporary Physics*, 52(6):624–625, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2683] S. C. Tiwari. *Emmy Noether's Wonderful Theorem*, by D. E. Neuenschwander, Scope: monograph. Level: senior undergraduate/graduate physics students. *Contemporary Physics*, 52(6):625–626, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2684] Doğa Gürsoy. *The Science of Imaging: An Introduction*, 2nd edn., by Graham Saxby, Scope: general interest. Level: general readership, non-specialists, undergraduates, teachers. *Contemporary Physics*, 52(6):626, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2685] Nikolaos E. Myridis. *Paradigms of Combinatorial Optimization: Problems and New Approaches*, edited by Vangelis T. Paschos, Scope: edited book. Level: postgraduate, researcher, teacher, scientist. *Contemporary Physics*, 52(6):626–627, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2686] David L. Andrews. *Introduction to Quantum Optics: From the Semi-Classical Approach to Quantized Light*, by Gilbert Grynberg, Alain Aspect and Claude Fabre, Scope: monograph. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 52(6):627–628, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2689] Thomas Peters. *Turbulence and Shell Models*, by P. D. Ditlevsen, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(6):630–631, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2691] Alan Martin. *Quantum Physics for Poets*, by Leon M. Lederman and Christopher T. Hill, Scope: general interest. Level: general readership.

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[2692] Gerard Milburn. *Classical and Quantum Information*, by D. C. Marinescu and G. M. Marinescu, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(6):632–633, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2693] Martin Hendry. *Lectures on Gravitation*, by Ashok Das, Scope: review. Level: postgraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 52(6):633–634, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2694] Adriana Pálffy. *The Quantum Story: A History in 40 Moments*, by Jim Baggott, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(6):634–635, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2695] Miguel A. F. Sanjuán. *Adaptation in Dynamical Systems*, by Ivan Tyukin, Scope: monograph, reference. Level: general reader, undergraduate, postgraduate, specialist. *Contemporary Physics*, 52(6):635, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2696] Geoffrey Duxbury. *Concepts and Methods of 2D Infrared Spectroscopy*, by Peter Hamm and Martin Zanni, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 52(6):636, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Harris:2012:WRE

[2702] David Harris. *Waves and Rays in Elastic Continua*, by Michael A. Slawinski, Scope: monograph. Level: postgraduate, scientist, engineers. *Contemporary Physics*, 53(1):55, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2703] S. W. Lovesey. *Optical Interactions in Solids*, 2nd edn, Scope: monograph. Level: researcher. *Contemporary Physics*, 53(1):56, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2704] Adolfo del Campo. *Fundamentals and New Frontiers of Bose–Einstein Condensation*, Scope: monograph. Level: advanced graduate and postgraduate students and researchers. *Contemporary Physics*, 53(1):56–57, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2705] Amgad Salama. *Classical Mechanics Illustrated by Modern Physics: 42 Problems with Solutions*, Scope: reference. Level: undergraduate. *Contemporary Physics*, 53(1):57, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2012:MAN

[2706] M. Jamil. *Modern Atomic and Nuclear Physics (Revised Edition): Problems and Solutions Manual*, Scope: manual. Level: graduate students and researchers. *Contemporary Physics*, 53(1):58, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2707] P. J. Bussey. *Lawless Universe: Science and the Hunt for Reality*, Scope: general interest. Level: general reader. *Contemporary Physics*, 53(1): 58–59, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2708] B. Cowan. *Thermodynamics*, by H. J. Kreuzer and Isaac Tamblyn, Scope: manual. Level: undergraduate. *Contemporary Physics*, 53(1): 59–60, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2709] Barrie W. Jones. *Formation and Evolution of Exoplanets*, edited by Rory Barnes, Scope: monograph. Level: scientist. *Contemporary Physics*, 53 (1):60–61, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2710] Manuel Vogel. *Physics of the Human Body*, by Richard P. McCall, Scope: monograph/essay. Level: undergraduate students. *Contemporary Physics*, 53(1):69, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2012:NWM

[2711] Miguel A. F. Sanjuán. *Nonlinear Wave Methods for Charge Transport*, by Luis L. Bonilla and Stephen W. Teitsworth, Scope: monograph. Level: graduate students and specialists. *Contemporary Physics*, 53(1):61–62, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2012:TPS

[2712] Matt Probert. *Thermodynamic Properties of Solids: Experiment and Modeling*, edited by Samrath L. Chaplot, Ranjan Mittal and Narayani Choudhury, Scope: review. Level: postgraduate, early career researcher,

researcher. *Contemporary Physics*, 53(1):62–63, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2713] Thomas Peters. *Advanced Mechanics and General Relativity*, by J. Franklin, Scope: textbook. Level: graduate. *Contemporary Physics*, 53 (1):63–64, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2714] R. S. MacKay. *The Dark Universe: Matter, Energy, and Gravity*, edited by Mario Livio, Scope: review. Level: general readership. *Contemporary Physics*, 53(1):64–65, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2715] S. J. Blundell. *Introduction to the Theory of Critical Phenomena: Mean Field, Fluctuations and Renormalization*, 2nd edn., by Dimo I. Uzunov, Scope: research monograph. Level: early career researcher, researcher. *Contemporary Physics*, 53(1):65–66, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2012:CGA

[2716] Ian Lawrie. *Canonical Gravity and Applications: Cosmology, Black Holes, and Quantum Gravity*, by M. Bojowald, Scope: monograph. Level: postgraduate, early career researcher. *Contemporary Physics*, 53(1):66–67, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2717] Vahan Senekerimyan. *Optical Sensors: Basics and Applications*, by J. Haus, Scope: general interest, monograph. Level: general readership, non-specialists, undergraduates, teachers. *Contemporary Physics*, 53(1): 67, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Siklos:2012:EST

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[2768] Ken Zetie. *Relativity for the Questioning Mind*, by Daniel F. Styer, Scope: general interest. Level: undergraduate. *Contemporary Physics*, 53(3):253, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2769] Xuetao Zhu. *Basic Elements of Crystallography*, by Nevill Gonzalez Szwacki and Teresa Szwacka, Scope: handbook, reference. Level: non-specialists, undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 53(3):253–254, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2770] Peter J. Bussey. *The Quest for Reality: Bohr and Wittgenstein — Two Complementary Views*, by S. Stenholm, Scope: general interest. Level: scientist. *Contemporary Physics*, 53(3):254–255, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2780] Bo Reipurth. *Star Clusters: Basic Galactic Building Blocks Throughout Time and Space*, IAU S266, edited by Richard de Grijs and Jacques Lépine, Scope: conference proceedings. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 53(3):268–269, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2781] Chris Athorne. *Solved Problems in Classical Mechanics: Analytical and Numerical Solutions with Comments*, by O. L. de Lange and J. Pierrus, Scope: review. Level: undergraduate. *Contemporary Physics*, 53 (3):269, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2782] J. Rogel-Salazar. *Stochastic Control and Mathematical Modeling: Applications in Economics*, by H. Morimoto, Scope: review. Level: advanced postgraduate or scientist. *Contemporary Physics*, 53(3):269–270, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2784] Matt Probert. *Engineering Optimisation: An Introduction with Metaheuristic Applications*, by Xin-She Yang, Scope: reference. Level:undergraduate, postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 53(3):271–272, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2797] Gerard Milburn. *Quantum Engineering: Theory and Design of Quantum Coherent Structures*, by A. M. Zagoskin, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 53(3):283–284, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2817] Chris Linton. *An Introduction to Metamaterials and Waves in Composites*, by B. Banerjee, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 53(4):363–364, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2821] Thomas Peters. *Lectures on Dynamics of Stochastic Systems*, by V. I. Klyatskin, Scope: textbook. Level: graduate. *Contemporary Physics*, 53 (4):366–367, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2831] S. C. Tiwari. *Foundations of Perturbative QCD*, by John Collins, Scope: textbook/monograph. Level: graduate students/researchers in high energy physics. *Contemporary Physics*, 53(4):374–375, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2832] Manuel Vogel. *Relativistic Celestial Mechanics of the Solar System*, by Sergei Kopeikin, Michael Efroimsky and George Kaplan, Scope: monograph. Level: undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 53(4):375–376, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2833] Miguel A. F. Sanjuán. *Noise-Induced Phenomena in the Environmental Sciences*, by Luca Ridolfi, Paolo D'Odorico and Francesco Laio, Scope: monograph. Level: graduate students and specialists, general readers, undergraduates, postgraduates, specialists. *Contemporary Physics*, 53 (4):376, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2834] Andrew Resnick. *Life at the Nanoscale: Atomic Force Microscopy of Live Cells*, edited by Yves Dufrêne, Scope: guide, handbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 53(4):377, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2835] Andrew Resnick. *Astronomical Optics and Elasticity Theory: Active Optics Methods*, by G. R. Lemaitre, Scope: reference. Level: postgraduate, advanced undergraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 53(4):377–378, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2836] Peter J. Dobson. *Nanomedicine: Design and Applications of Magnetic Nanomaterials, Nanosensors and Nanosystems*, by Vijay K. Varadan, Linfeng Chen and Jining Xie, Scope: monograph, reference. Level: postgraduate, advanced undergraduate, early career researcher, researcher, engineers. *Contemporary Physics*, 53(4):378–379, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2837] Andrew Resnick. *Introduction to Experimental Biophysics: Biological Methods for Physical Scientists*, by Jay Nadeau, Scope: handbook, manual, reference. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, specialist, scientist. *Contemporary Physics*, 53(4):379, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2840] Frank Berkshire. *Reviews of Nonlinear Dynamics and Complexity*, Volume 3, edited by Heinz Georg Schuster, Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 53(4):

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[2841] Jitesh S. B. Gajjar. *Handbook of Compressible Aerodynamics*, by Jean Délery, Scope: handbook. Level: postgraduate, early career researcher, researcher, specialist, engineers. *Contemporary Physics*, 53(4):381–382, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2842] Nicholas Dimakis. *Introduction to Medical Imaging — Physics*, Engineering and Clinical Applications, by Nicholas Dimakis, Scope: medical imaging. Level: advanced undergraduates and graduate students in medical imaging and related disciplines. *Contemporary Physics*, 53(4): 382–383, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2843] Frank Berkshire. *Their Arrows Will Darken the Sun — The Evolution and Science of Ballistics*, by Mark Denny, Scope: general interest, guide. Level: general readership, non-specialists, undergraduate, teacher, specialist, scientist. *Contemporary Physics*, 53(4):383–384, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2845] Jörg Götte. *Analytical Mechanics for Relativity and Quantum Mechanics*, 2nd edition, by Oliver Davies Johns, Scope: monograph. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 53(4):385, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2847] A. M. Fox. *Manipulating Quantum Structures Using Laser Pulses*, by Bruce W. Shore, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 53(4):386–387, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2848] R. Tucker. *Covariant Electrodynamics: A Concise Guide*, by John M. Charap, Scope: review. Level: advanced undergraduates. *Contemporary Physics*, 53(4):387, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2849] Derry W. Jones. *Drive and Curiosity: What Fuels the Passion*, by Istvan Hargittai, Scope: recent history of scientists. Level: general reader and scientists. *Contemporary Physics*, 53(4):387–389, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2850] Charlie Ironside. *More is Different: Fifty Years of Condensed Matter Physics*, edited by N. Phuan Ong and Ravin N. Bhatt, Scope: review. Level: researcher. *Contemporary Physics*, 53(4):389, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2851] Frank Berkshire. *Gliding for Gold: The Physics of Winter Sports*, by Mark Denny, Scope: general interest, guide, monograph. Level: general readership, non-specialists, undergraduate, teacher, scientist. *Contemporary Physics*, 53(4):389–390, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2852] Catherine M. Wykes. *Introduction to Holography*, by Vincent Toal, Scope: monograph. Level: postgraduate, advanced undergraduate, researcher. *Contemporary Physics*, 53(4):390–391, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2853] Peter J. Dobson. *Nanosensors: Physical, Chemical, and Biological*, by Vinod Kumar Khanna, Scope: reference, review, text book. Level: general readership, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 53(4):391–392, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2854] J. Rogel-Salazar. *Quantum Mechanics: Its Early Development and the Road to Entanglement and Beyond*, by E. G. Steward, Scope: general science. Level: undergraduate. *Contemporary Physics*, 53(4):392, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2856] Peter J. Bussey. *The Quantum Vacuum: A Scientific and Philosophical Concept, from Electrodynamics to String Theory and the Geometry of the Microscopic World*, by Luciano Boi, Scope: monograph. Level: researcher. *Contemporary Physics*, 53(4):393–394, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2857] Peter J. Bussey. *Black Holes, Wormholes and Time Machines* (2nd edition), by Jim Al-Khalili, Scope: general interest. Level: general readership. *Contemporary Physics*, 53(4):394, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2858] S. J. Blundell. *Superconductivity in New Materials*, Vol. 4, volume edited by Z. Fisk and H. R. Ott, Scope: edited book. Level: researcher. *Contemporary Physics*, 53(4):394–395, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2859] Allan I. Solomon. *Dynamical Symmetry*, by Carl E. Wulfman, Scope: textbook. Level: post-graduate. *Contemporary Physics*, 53(4):395–396,

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[2860] Amgad Salama. *Exploring Monte Carlo Methods*, by William L. Dunn and J. Kenneth Shultis, Scope: review. Level: undergraduate. *Contemporary Physics*, 53(4):396, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2861] Valérie Messager, Robert Gilmore, and Christophe Letellier. Henri Poincaré and the principle of relativity. *Contemporary Physics*, 53(5): 397–415, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2862] Jeong San Kim, Gilad Gour, and Barry C. Sanders. Limitations to sharing entanglement. *Contemporary Physics*, 53(5):417–432, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2863] Peter V. E. McClintock. *What is life?*, Scope: review. Level: general reader. *Contemporary Physics*, 53(5):433–435, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2864] D. J. Miller. *You are Wrong Mr Einstein! Newton, Einstein, Heisenberg and Feynman Discussing Quantum Mechanics*, by Harald Fritzsch, Scope: general interest. Level: undergraduates and/or general readers. *Contemporary Physics*, 53(5):437–439, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2865] David Bucknall. *Solid-State Spectroscopy: An Introduction*, 2nd edn., by Hans Kuzmany, Scope: textbook. Level: postgraduates, advanced undergraduates, early career researchers, researchers, teachers, scientists and engineers. *Contemporary Physics*, 53(5):439–440, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2866] Marco Casazza. *Thermal Physics: Entropy and Free Energies*, 2nd edn., by Joon Chang Lee, Scope: review. Level: undergraduates, postgraduates, advanced undergraduates, early career researchers and teachers.

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[2867] Aniruddha Chakraborty. *The Physicist's World: The Story of Motion and the Limits to Knowledge*, by Thomas Grissom, Scope: review. Level: undergraduate. *Contemporary Physics*, 53(5):440–441, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2868] Christian G. Böhmer. *The Geometry of Physics: An Introduction*, 3rd edn., by Theodore Frankel, Scope: review. Level: undergraduates and graduate students, researchers. *Contemporary Physics*, 53(5):441–442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2869] Thomas Peters. *Turbulence, Coherent Structures, Dynamical Systems and Symmetry*, 2nd edn., by P. Holmes, Scope: monograph. Level: researchers. *Contemporary Physics*, 53(5):442, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2870] P. J. Bussey. *Cosmic Anger: Abdus Salam — The First Muslim Nobel Scientist*, by Gordon Fraser, Scope: biography. Level: general readership. *Contemporary Physics*, 53(5):442–443, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2871] Manuel Vogel. *Oxford Dictionary of Astronomy*, by Ian Ridpath, Scope: reference. Level: general readership. *Contemporary Physics*, 53(5):443–444, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2872] Salvatore Esposito. *Statistical Physics of Liquids at Freezing and Beyond*, by S. P. Das, Scope: monograph. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 53(5):444–445, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2873] Thomas Peters. *Advanced Solid State Physics*, 2nd edn., by P. Phillips, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(5):

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[2874] Andrew Resnick. *Continuum Mechanics and Thermodynamics: From Fundamental Concepts to Governing Equations*, by Ellad B. Tadmor, Ronald E. Miller and Ryan S. Elliott, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, teacher, scientist, engineers. *Contemporary Physics*, 53(5):445–446, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2875] Thomas Peters. *Advanced Topics in Quantum Field Theory: A Lecture Course*, by M. Shifman, Scope: textbook. Level: graduate. *Contemporary Physics*, 53(5):446–447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2876] Andrew Resnick. *Physics for Clinical Oncology*, edited by Amen Sibtain, Scope: handbook. Level: teacher, specialist. *Contemporary Physics*, 53 (5):447, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2877] Monica Pierri-Galvao. *Neutrino*, by Frank Close, Scope: general interest. Level: general reader, undergraduate through professionals. *Contemporary Physics*, 53(5):447–448, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2878] Mark Fox. *Luminescence Spectroscopy of Semiconductors*, Ivan Pelant and Jan Valenta, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 53(5):448, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2886] Derry W. Jones. *More and Different: Notes from a Thoughtful Curmudgeon*, by Philip W. Anderson, Scope: biography, edited book, review. Level: general readership but parts need physics background. *Contemporary Physics*, 53(5):454–455, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2889] Peter V. E. McClintock. *Astronautics: The Physics of Space Flight*, 2nd edn., by Ulrich Walter, Scope: textbook. Level: space industry professionals, postgraduates, senior undergraduates. *Contemporary Physics*, 53(5):456–457, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2896] Eric Sheldon. *The imprint of genius*, Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 53(6):495–498, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2899] Peter W. Milonni. *Exploring Quantum Physics through Hands-On Projects*, by D. Prutchi and S. R. Prutchi, Scope: general interest, guide, monograph. Level: pre-university, undergraduates, advanced undergraduates, teachers. *Contemporary Physics*, 53(6):501–502, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2904] Peter J. Bussey. *Quantum Physics: Illusion or Reality?*, by Alastair M. Rae, Scope: review. Level: general readership. *Contemporary Physics*, 53(6):505–506, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2905] F. W. Taylor. *Theory of Atmospheric Radiative Transfer: A Comprehensive Introduction*, by Manfred Wendisch and Ping Yang, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 53(6):

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[2909] J. Rogel-Salazar. *Organic Light-Emitting Diodes: The Use of Rare-Earth Transition Metals*, by Luiz Pereira, Scope: review. Level: advanced graduate and postgraduate, researchers, specialists. *Contemporary Physics*, 53(6):509, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2916] David J. Miller. *From Black Clouds to Black Holes*, 3rd edn., by Jayant V. Narlikar, Scope: general interest. Level: general readership, non-specialists. *Contemporary Physics*, 53(6):514–515, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2917] Chandra Wickramasinghe. *The Universe: A Challenge to the Mind*, by Jacques Vanier, Scope: general interest, textbook. Level: undergraduate. *Contemporary Physics*, 53(6):515, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2918] M. Jamil. *Nuclear Medicine Physics*, edited by J. J. De Lima, Scope: monograph. Level: graduate students and researchers. *Contemporary*

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[2919] Catherine M. Wykes. *Handbook of Surface and Nanometrology*, 2nd edn., by David J. Whitehouse, Scope: review. Level: postgraduates, advanced undergraduates, early career researchers, researchers, specialists, engineers. *Contemporary Physics*, 53(6):516–517, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2920] John I. B. Wilson. *Physics of Radio-Frequency Plasmas*, by Pascal Chabert and Nicholas Braithwaite, Scope: monograph, textbook. Level: postgraduates, early career researchers, researchers, scientists, engineers. *Contemporary Physics*, 53(6):517–519, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2921] Mario Agio. *Advances in Atomic Physics: An Overview*, by Claude Cohen-Tannoudji and David Guéry-Odelin, Scope: monograph, text book. Level: postgraduates, advanced undergraduates, early career researchers, researchers, teachers, specialists, scientists. *Contemporary Physics*, 53(6):519–520, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2922] Chandra Wickramasinghe. *Adventures in Cosmology*, by David Goodstein, Scope: edited book. Level: advanced undergraduates. *Contemporary Physics*, 53(6):520, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2924] Andrew Resnick. *Femtosecond Laser–Matter Interactions: Theory*, Experiments, and Applications, by Eugene G. Gamaly, Scope: monograph. Level: postgraduates, advanced undergraduates, early career researchers, teachers, scientists, engineers. *Contemporary Physics*, 53(6):521–522,

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[2927] Mabrouk Benhamou. *Polymer Viscoelasticity — Basics, Molecular Theories, Experiments and Simulations*, 2nd edn, by Yn-Hwang Lin, Scope: textbook. Level: researchers. *Contemporary Physics*, 53(6):524, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2928] Manuel Vogel. *The Release of Thermonuclear Energy by Inertial Confinement: Ways Towards Ignition*, by Friedwardt Winterberg, Scope: monograph. Level: scientists, engineers. *Contemporary Physics*, 53(6): 525, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2929] David J. Miller. *Exploding Superstars: Understanding Supernovae and Gamma Ray Bursts*, by Alain Mazure and Stéphane Basa, Scope: general interest, textbook. Level: general readership, advanced undergraduates, early career researchers, scientists. *Contemporary Physics*, 53(6): 525–526, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2930] P. T. Greenland. *Principles of Terahertz Science and Technology*, by Yun-Shik Lee, Scope: monograph. Level: researchers, specialists. *Contemporary Physics*, 53(6):526–527, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2931] J. H. Eberly. *Stochastic Processes*, by Richard F. Bass, Scope: textbook. Level: postgraduates, researchers. *Contemporary Physics*, 53(6): 527, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2932] D. G. C. Jones. *Compound Semiconductor Photonics: Materials, Devices and Integration*, by Chua Soo-Jin, Teng Jinghua and Aaron Danner, Scope: conference proceedings. Level: researchers. *Contemporary Physics*, 53(6):527–528, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2933] David J. Miller. *The Quantum Adventure: Does God Play Dice?*, by Alex Montwill and Ann Breslin, Scope: general interest. Level: general readership, undergraduates, teachers. *Contemporary Physics*, 53(6): 528–529, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2934] Manuel Vogel. *Fluid Flows to Black Holes: A Tribute to S. Chandrasekhar on His Birth Centenary*, by D. J. Saikia and V. Trimble, Scope: biography. Level: general readership. *Contemporary Physics*, 53(6):529–530, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2935] Thomas Peters. *The Mathematical Language of Quantum Theory: From Uncertainty to Entanglement*, by T. Heinosaari and M. Ziman, Scope: textbook. Level: postgraduates. *Contemporary Physics*, 53(6):530, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2936] Michael Belsley. *Lectures on Quantum Mechanics*, 2nd edn, by Ashok Das, Scope: textbook. Level: postgraduates, advanced undergraduates. *Contemporary Physics*, 53(6):530–531, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2937] Salvatore Esposito. *Introduction to Modern Physics: Theoretical Foundations*, by John Dirk Walecka, Scope: textbook. Level: undergradu-

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[2938] R. S. Shorter. *The Fundamentals of Imaging: From Particles to Galaxies*, by Michael Mark Woolfson, Scope: textbook. Level: General readership, pre-university, teachers. *Contemporary Physics*, 53(6):532, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2939] David H. Coule. *Quantum Gravity*, 3rd edn, by Claus Kiefer, Scope: monograph, textbook. Level: postgraduates, early career researchers, researchers. *Contemporary Physics*, 53(6):532–533, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2941] M. F. El-Amin. *Rotating Flow*, by Peter Childs, Scope: review. Level: postgraduates, scientists, engineers. *Contemporary Physics*, 53(6):534, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2942] Aniruddha Chakraborty. *Disordered Semiconductors — Physics and Applications*, by Anatoly Popov, Scope: review. Level: advanced undergraduates. *Contemporary Physics*, 53(6):534–535, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2943] J. Rogel-Salazar. *Computational Analysis of the Human Eye with Applications*, by Sumeet Dua, Rajendra Acharya U. and E. Y. K. Ng, Scope: review. Level: postgraduates, advanced undergraduates, researchers, specialists. *Contemporary Physics*, 53(6):535–536, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2944] Peter R. Hobson. *A Student's Guide to Vectors and Tensors*, by Daniel Fleisch, Scope: textbook. Level: pre-university, undergraduates, teachers, scientists, engineers. *Contemporary Physics*, 53(6):536, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2945] Aniruddha Chakraborty. *Quantum Bio-Informatics IV: From Quantum Information to Bio-Informatics*, 1st edn, by Luigi Accardi Wolfgang Freudenberg and Masanori Ohya, Scope: review. Level: researchers in quantum information, bio-informatics and life science. *Contemporary Physics*, 53(6):537, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2948] Aniruddha Chakraborty. *The Thermodynamics of Quantum Yang–Mills Theory: Theory And Applications*, by Ralf Hofmann, Scope: review. Level: researchers. *Contemporary Physics*, 53(6):539, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2949] Mario Bertolotti. *Atoms in Intense Laser Fields*, by C. J. Joachain, N. J. Kylstra and R. M. Potvliege, Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 53(6):539–540, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2950] Gerard Milburn. *Essentials of Hamiltonian Dynamics*, by J. H. Lowenstein, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 53(6):541, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2951] Allan I. Solomon. *A Brief Tour of Modern Quantum Mechanics*, by Moshe Gitterman, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 53(6):541–542, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2952] Allan I. Solomon. *Classical Mechanics*, 5th edn., by Tom W. B. Kibble and Frank H. Berkshire, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 53(6):542–543, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2953] Suresh Chandra Tiwari. *The Supersymmetric Dirac Equation: The Application to Hydrogenic Atoms*, by Allen Hirshfeld, Scope: textbook. Level: undergraduates. *Contemporary Physics*, 53(6):543–544, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2954] Peter R. Hobson. *Principles of Radiation Interaction in Matter and Detection*, 3rd edn., by Claude Leroy and Pier-Giorgio Rancoita, Scope: monograph, reference. Level: postgraduates, early career researchers, researchers, specialists, scientists, engineers. *Contemporary Physics*, 53 (6):544, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2956] Manuel Vogel. *Fundamentals of Numerical Weather Prediction*, by Jean Coiffier, Scope: monograph. Level: advanced undergraduate students.

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[2958] Anonymous. Editorial board. *Contemporary Physics*, 53(6):ebi, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[2959] Louis Lyons. Bayes and frequentism: a particle physicist's perspective. *Contemporary Physics*, 54(1):1–16, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3004] G. W. Gibbons. *The Birth of String Theory*, edited by Andrea Cappelli, Elena Castellani, Filippo Colomo and Paolo Di Vecchia, Scope: review. Level: general readers, postgraduates,researchers. *Contemporary Physics*, 54(1):86–87, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3009] P. T. Greenland. *Should we eat Einstein's brain?*, Scope: general interest. Level: general readership. *Contemporary Physics*, 54(2):97–99, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3011] Mario Bertolotti. *Fundamentals of Attosecond Optics*, by Zenghu Chang, Scope: monograph. Level: postgraduate, advanced undergraduate, researchers, engineers. *Contemporary Physics*, 54(2):104–105, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3012] Matt Probert. *High-Pressure Physics*, edited by John Loveday. Scope: conference proceedings, edited book, reference. Level: postgraduate, early career researcher. *Contemporary Physics*, 54(2):105, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3014] Gunter M. Schütz. *Introduction to Probability and Stochastic Processes with Applications*, by L. B. Castañeda, V. Arunachalam and S. Dharmaraja, Scope: textbook. Level: non-specialists, advanced undergraduates. early career researchers, engineers. *Contemporary Physics*, 54(2): 106–107, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3016] B. Ishak. *Pulsar Astronomy*, 4th edn., by A. Lyne and F. Graham-Smith, Scope: monograph. Level: Ph.D.s, post-docs and, specialists. *Contemporary Physics*, 54(2):107–108, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3017] Peter J. Bussey. *Reminiscences: A Journey Through Particle Physics*, by Adrian Melissinos, Scope: biography. Level: postgraduate, researcher.

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[3018] Dawn E. Leslie. *Stars: A Very Short Introduction*, by Andrew King, Scope: guide, general interest. Level: general readers, non-specialists, pre-undergraduate, undergraduate, teacher. *Contemporary Physics*, 54 (2):109, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3026] Enda McGlynn. *Electron Paramagnetic Resonance of Transition Ions*, Oxford Classic Texts in the Physical Sciences, by A. Abragam and B. Bleaney, Scope: textbook, monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 54(2):115–116, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3028] J. Rogel-Salazar. *Advances in Thin-Film Solar Cells*, by I. M. Dharmadasa, Scope: textbook. Level: undergraduate, postgraduate. *Contemporary Physics*, 54(2):117, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3029] S. J. Blundell. *Correlated Electrons in Quantum Matter*, by Peter Fulde, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(2): 117–118, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3032] Suresh Chandra Tiwari. *The Physics of Neutrinos*, by V. Barger, D. Marfatia and K. Whisnant, Scope: review, monograph. Level: specialist, researcher, teacher. *Contemporary Physics*, 54(2):120–121, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3034] Tom Lancaster. *Do We Really Understand Quantum Mechanics?*, by Franck Laloë, Scope: monograph. Level: advanced undergraduate to specialist. *Contemporary Physics*, 54(2):121–122, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3035] Marco Casazza. *The Weather Observer's Handbook*, by Stephen Burt, Scope: handbook, manual, textbook. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. engineers. *Contemporary Physics*, 54(2):122–123, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3037] Peter J. Bussey. *Relativity Made Relatively Easy*, by Andrew M. Steane, Scope: textbook. Level: postgraduate. advanced undergraduate. *Contemporary Physics*, 54(2):124, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3039] Chih-Yueh Wang. *Death of Massive Stars (IAU S279): Supernovae and Gamma-Ray Bursts*, Proceedings of the International Astronomical Union (IAU S279), edited by P. W. A. Roming, N. Kawai and E. Pian., Scope: conference proceeding. Level: postgraduate/specialist. *Contemporary Physics*, 54(2):125–126, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3041] Manuel Vogel. *The Theory of Probability*, by Santosh S. Venkatesh, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 54(2):127, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3042] Manuel Vogel. *Why You Hear What You Hear*, Eric J. Heller, Scope: general interest, monograph. Level: general readership. *Contemporary Physics*, 54(2):127–128, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3046] Garth Jones. *Mathematical Structures of Quantum Mechanics*, by Kow Lung Chang, Scope: text book. Level: postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 54 (2):131–132, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3047] P. T. Greenland. *Applied Bohmian Mechanics from Nanoscale Systems to Cosmology*, edited by X. Oriols, J. Mompart, Scope: edited book. Level: researcher. *Contemporary Physics*, 54(2):132–133, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3048] R. S. Shorter. *Niels Bohr and the Quantum Atom: The Bohr Model of Atomic Structure 1913–1925*, by Helge Kragh, Scope: biography, general interest. Level: general readership. *Contemporary Physics*, 54(2): 133, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3049] Mark Nicol. *Measuring the Universe: A Multiwavelength Perspective*, by George H. Rieke, Scope: review. Level: postgraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 54(2):133–134,

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[3051] Mabrouk Benhamou. *Advances in Carbon Nanomaterials: Science and Applications*, by Nikos Tagmatarchis, Scope: edited book. Level: researchers. *Contemporary Physics*, 54(2):135–136, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3052] Robert Appleby. *Accelerator Physics: Example Problems with Solutions*, by William W. MacKay and Mario Conte, Scope: review. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 54(2):136, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3054] Peter R. Hobson. *LHC Physics*, edited by T. Binoth, C. Buttar, P. J. Clark and E. W. N. Glover, Scope: conference proceedings. Level: postgraduate, early career researcher. *Contemporary Physics*, 54(2):137–138, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3055] Aniruddha Chakraborty. *Essentials of Electromagnetics for Engineering*, by David A. De Wolf, Scope: review. Level: undergraduate. *Contemporary Physics*, 54(2):138, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3058] Peter R. T. Munro. *Principles of Diffuse Light Propagation: Light Propagation in Tissues with Applications in Biology and Medicine*, by Jorge Ripoll Lorenzo, Scope: textbook. Level: postgraduate and specialist. *Contemporary Physics*, 54(2):139–140, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3059] K. Alan Shore. *Nanofabrication Using Focused Ion and Electron Beams: Principles and Applications*, edited by Ivo Utke, Stanisislav Moshkalev and Phillip Russell, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(2):140–141, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3062] Andrew Resnick. *Biomedical Nanosensors*, edited by Joseph Irudayaraj, Scope: edited book, reference, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, scientist, engineers.

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[3064] Miguel A. F. Sanjuán. *Thermal Physics: Concepts and Practice*, by Allen L. Wasserman, Scope: textbook. Level: advanced undergraduate, graduate students, lecturers. *Contemporary Physics*, 54(3):170–171, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3065] Lampros Nikolopoulos. *Quantum Control of Molecular Processes*, (Second, Revised and Enlarged Edition), by M. Shapiro and P. Brumer, Scope: review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(3):171–172, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3066] Andrew Resnick. *The Cambridge Photographic Moon Atlas*, by Alan Chu, Wolfgang Paech, Mario Weigand, translated by Storm Dunlop, Scope: general interest. Level: general readership, non-specialists, preuniversity, undergraduate, advanced undergraduate, teacher. *Contemporary Physics*, 54(3):172, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3068] Manuel Vogel. *Essentials of Heat Transfer: Principles, Materials, and Applications*, by Massoud Kaviany, Scope: textbook. Level: undergrad-

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[3069] Manuel Vogel. *Fundamentals of Astrometry*, by Jean Kovalevsky and P. Kenneth Seidelmann, Scope: monograph. Level: undergraduates and above. *Contemporary Physics*, 54(3):174–175, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3070] Thomas Peters. *Self-Organised Criticality: Theory, Models and Characterisation*, by Gunnar Pruessner, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(3):175, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3071] Tom Lancaster. *Einstein's Physics: Atoms, Quanta, and Relativity — Derived, Explained, and Appraised*, by Ta-Pei Cheng, Scope: monograph. Level: researcher. *Contemporary Physics*, 54(3):175–176, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3072] T. J. M. Boyd. *Basic Space Plasma Physics*, by Wolfgang Baumjohann and Rudolf A. Treumann, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54(3):176–177, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3073] David Bailin. *Group Theory for High Energy Physicists*, by Mohammad Saleem and Muhammad Rafique, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(3):177–178, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3074] B. Ishak. *Neutrino Cosmology*, by J. Lesgourgues, G. Mangano, G. Miele and S. Pastor, Scope: monograph. Level: early career researcher, researcher, specialist. *Contemporary Physics*, 54(3):178–179, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3075] R. Ellis. *Binary Paths to Type Ia Supernovae Explosions*, edited by Rosanne Di Stefano, Marina Orio and Maxwell Moe, Scope: conference

proceedings. Level: researcher. *Contemporary Physics*, 54(3):179–180, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3076] Charles Downing. *Advanced Quantum Mechanics: A Practical Guide*, by Yuli V. Nazarov and Jeroen Danon, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 54(3):180, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3077] S. F. Huelga and M. B. Plenio. Vibrations, quanta and biology. *Contemporary Physics*, 54(4):181–207, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3078] David J. Miller. Essay review: The anatomy of a paradigm-shift. *The Continental Drift Controversy*, by Henry R. Frankel. ISBN 978-0-521-87507-3. Scope: monograph. Level: accessible and useful to all levels of reader, from general interest to specialist. *Contemporary Physics*, 54(4): 208–210, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3079] David Bailin. *Quantum Field Theories in Two Dimensions: Collected Works of Alexei Zamolodchikov (in 2 Volumes)*, edited by Alexander Belavin, Yaroslav Pugai and Alexander Zamolodchikov, Scope: edited book. Level: researcher. *Contemporary Physics*, 54(4):211–212, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3080] Angie Ma. *Biophysics: Searching for Principles*, by William Bialek, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(4):212–213, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3081] B. Ishak. *The First Galaxies in the Universe*, by Abraham Loeb and Steven R. Furlanetto, Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):213–214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3082] Manuel Vogel. *Astrometry for Astrophysics: Methods, Models, and Applications*, edited by William F. van Altena, Scope: edited book. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 54(4): 214, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3083] Mark Fox. *The Handbook on Optical Constants of Metals: In Tables and Figures & The Handbook on Optical Constants of Semiconductors: In Tables and Figures*, by Sadao Adachi, Scope: reference. Level: researcher. *Contemporary Physics*, 54(4):215, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3084] Nikolaos E. Myridis. *Artificial Human Sensors: Science and Applications*, by Peter Wide, Scope: monograph. Level: general readership, advanced undergraduate, postgraduate,researcher, teacher, engineers. *Contemporary Physics*, 54(4):215–216, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3085] Manuel Vogel. *Our Magnetic Earth: The Science of Geomagnetism*, by Ronald T. Merrill, Scope: monograph. Level: general readership. *Contemporary Physics*, 54(4):216–217, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3086] Matt Probert. *The Transactional Interpretation of Quantum Mechanics: The Reality of Possibility*, by Ruth E. Kastner, Scope: reference. Level: specialist. *Contemporary Physics*, 54(4):217–218, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3087] S. C. Tiwari. *The Angular Momentum of Light*, by D. L. Andrews and M. Babiker, Scope: reference, edited book. Level: advanced undergraduate, researcher,teacher, specialist. *Contemporary Physics*, 54(4):218–219, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3088] Derry W. Jones. *The Long Road to Stockholm, The Story of MRI: An Autobiography*, by Peter Mansfield, Scope: autobiography. Level: scientist, general reader. *Contemporary Physics*, 54(4):219–220, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3089] Peter J. Bussey. *Quantum Concepts in Physics: An Alternative Approach to the Understanding of Quantum Mechanics*, by Malcolm Longair, Scope: textbook. Level: teacher, specialist. *Contemporary Physics*, 54(4):220–221, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3090] Thomas Peters. *Nonequilibrium Many-Body Theory of Quantum Systems: A Modern Introduction*, by G. Stefanucci and R. van Leeuwen, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 54(4): 221, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3091] Peter J. Bussey. *The Oxford Handbook of Philosophy of Physics*, edited by R. Batterman, Scope: review, edited book. Level: postgraduate, researcher, specialist, scientist. *Contemporary Physics*, 54(4):221–223, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3092] Joseph Eberly. *Review of Modern Physics*, by Paul A. Tipler and Ralph A. Llewellyn, Scope: reference, textbook. Level: undergraduate, advanced undergraduate, teacher. *Contemporary Physics*, 54(4):223–224, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3093] Robert D. Joseph. *Isaac Newton's Scientific Method: Turning Data into Evidence about Gravity and Cosmology*, by William L. Harper. Scope: review. Level: specialist. *Contemporary Physics*, 54(4):224–225, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Quenby:2013:RJA

[3094] John Quenby. *Relativistic Jets from Active Galactic Nuclei*, edited by M. Boetttcher, D. E. Harris, and H. Krawczynski, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist. *Contemporary Physics*, 54(4):225–226, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Casazza:2013:SAH

[3095] Marco Casazza. *Synergetic Agents*, by Hermann Haken and Paul Levi, Scope: reference, monograph, manual, textbook. Level: non-specialists, postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 54(4):226–227, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3096] Amgad Salama. *Continuum Mechanics in the Earth Sciences*, by William I. Newman, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54(4):227, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Benhamou:2013:TIF

[3097] Mabrouk Benhamou. *Theory of Intermolecular Forces*, by Anthony Stone, Scope: textbook. Level: postgraduate, researcher. *Contemporary Physics*, 54(4):227–228, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3098] D. C. Barber. *Correction Techniques in Emission Tomography*, edited by Mohammad Dawood, Xiaoyi Jiang and Klaus Schäfers, Scope: review. Level: postgraduate, early career researcher, specialist. *Contemporary Physics*, 54(4):228–229, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3099] M. Jamil. *Fusion, the Energy of the Universe*, by Garry McCracken and Peter Stott, Scope: monograph. Level: postgraduate, advanced undergraduate,early career researcher, researcher. *Contemporary Physics*, 54 (4):229–230, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Matravers:2013:BPM

[3100] David R. Matravers. *The Ballet of the Planets: A Mathematician's Musings on the Elegance of Planetary Motion*, by Donald C. Benson, Scope: general interest. Level: pre-university, undergraduate. *Contemporary Physics*, 54(4):230–231, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3101] K. C. Yung, W. M. Wu, M. P. Pierpoint, and F. V. Kusmartsev. Introduction to graphene electronics — a new era of digital transistors and devices. *Contemporary Physics*, 54(5):233–251, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dombey:2013:ERO

[3102] Norman Dombey. Essay review: Oppenheimer, the bomb and beyond, Scope: biography. Level: general readership [Review of *Inside the Centre: The Life of J. Robert Oppenheimer*, by Ray Monk, London, Jonathon Cape, 2012, 818 pp., £30.00 (hardback), ISBN 978-0-224-06262-6]. *Contemporary Physics*, 54(5):252–253, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3103] Philip Phillips. *The Physics of Dilute Magnetic Alloys*, by Jun Kondo, translated by Shigeru Koikegami, Kosuke Odagiri, Kunihiko Yamaji and Takashi Yanagisawa, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):254, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2013:BPE

[3104] Peter J. Dobson. *Biomimetics in Photonics*, edited by Olaf Karthaus, Scope: review. Level: general readership, non-specialists, undergraduate, postgraduate, scientist. *Contemporary Physics*, 54(5):254–255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3105] Mark Fox. *A Practical Guide to Optical Metrology for Thin Films*, by Michael Quinten, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):255, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pounds:2013:TSS

[3106] Ken Pounds. *Time, Space, Stars and Man: The Story of the Big Bang*, by Michael M. Woolfson. Scope: review. Level: general readership. *Contemporary Physics*, 54(5):255–256, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Berkshire:2013:IPW

[3107] Frank Berkshire. *Introduction to the Physics of Waves*, by Tim Freegarde, Scope: textbook. Level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, teacher. *Contemporary Physics*, 54(5):256–257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3108] S. W. Lovesey. *A Modern Course in the Quantum Theory of Solids*, edited by Fuxiang Han, Scope: review. Level: postgraduate. *Contemporary Physics*, 54(5):257, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3109] J. Rogel-Salazar. *Introduction to Mathematical Physics: Methods and Concepts*, 2nd edn., by Chun Wa Wong, Scope: review. Level: undergraduate. *Contemporary Physics*, 54(5):257–258, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3110] Manuel Vogel. *Modern Physics: An Introductory Text*, by Jeremy I. Pfeffer and Shlomo Nir, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 54(5):258–259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2013:TPI

[3111] Juan A. Añel. *Turing: Pioneer of the Information Age*, by B. Jack Copeland, Scope: general interest. Level: general reader. *Contemporary Physics*, 54(5):259, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3112] Robert Appleby. *Measurement Uncertainty and Probability*, by Robin Willink, Scope: textbook. Level: specialist. *Contemporary Physics*, 54 (5):259–260, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2013:AAE

[3113] B. Ishak and J. McFarland. *Astrophysics from Antarctica*, edited by Michael G. Burton, Xiangqun Cui and Nicholas F. H. Tothill, Scope: wide-ranging review. Level: postgraduates and specialists. *Contemporary Physics*, 54(5):260–261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3114] S. W. Lovesey. *Exploring Quantum Mechanics: A Collection of 700+ Solved Problems for Students, Lecturers, and Researchers*, by Victor Galitski, Boris Karnakov, Vladimir Kogan, and Victor Galitski, Jr., Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 54 (5):261, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2013:EME

[3115] Michael Belsley. *Electricity and Magnetism*, by Edward M. Purcell and David J. Morin, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):261–262, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bucknall:2013:EOP

[3116] David Bucknall. *Electronic and Optical Properties of Conjugated Polymers*, 2nd edn., International Series of Monographs on Physics 159, by William Barford, Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 54(5): 262–263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3117] P. T. Greenland. *Terahertz Physics*, by R. A. Lewis, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 54(5):263, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3118] A. H. Harker. *Computational Methods for Electromagnetic Phenomena: Electrostatics in Solvation, Scattering and Electron Transport*, by Cai Wei, Scope: monograph. Level: postgraduate, researcher. *Contemporary Physics*, 54(5):263–264, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3119] Andrew Resnick. *Encyclopaedia of Medical Physics* (2 Volume Set), edited by Slavik Tabakov, Franco Milano, Sven-Erik Strand, Cornelius Lewis and Perry Sprawls, Scope: reference, encyclopedia. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 54(5): 264–265, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3120] Derry W. Jones. *Radioactivity: A Very Short Introduction*, by Claudio Tuniz, Scope: general interest. Level: general reader, preferably with physical science background. *Contemporary Physics*, 54(5):265–266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Leggett:2013:RTC

[3121] A. J. Leggett. *Revolutions in Twentieth-Century Physics*, by David J. Griffiths, Scope: general interest. Level: general readership, non-specialists, pre-university. *Contemporary Physics*, 54(5):266, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3122] David L. Andrews. *Light–Matter Interaction: Physics and Engineering at the Nanoscale*, by John Weiner and Frederico Nunes, Scope: textbook. Level: undergraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 54(5):267–268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3168] Richard Ellis. *The Cosmic Century: A History of Astrophysics and Cosmology*, by Malcolm S. Longair, Scope: monograph, reference, review. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 55(1):50–51, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3180] Michael Belsley. *Introduction to Quantum Information Science*, by Vlatko Vedral, Scope: text book. Level: advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 55(2):124–125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3181] A. H. Harker. *Computational Methods for Physics*, by Joel Franklin, Scope: text book. Level: undergraduate. *Contemporary Physics*, 55(2): 125, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3182] Peter V. E. McClintock. *Space, Time, & Stuff*, by Frank Arntzenius, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 55(2):126, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3197] Eric Sheldon. *Behind the Scenes of the Universe: From the Higgs to Dark Matter*, by Gianfranco Bertone. Scope: popular survey, general interest. Level: general readership, undergraduate, teacher, scientist. *Contemporary Physics*, 55(2):139–140, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3198] J. R. Sambles. *Transmission Lines: Equivalent Circuits, Electromagnetic Theory and Photons*, by Richard Collier, Scope: review. Level: undergraduates. *Contemporary Physics*, 55(2):140–141, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3205] Peter Holland. *Physical Foundations of Continuum Mechanics*, by A. Ian Murdoch, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 55(2):145–146, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3206] D. J. Miller. *Nuclear Physics: Exploring the Heart of Matter*, by National Research Council, Scope: report, review. Level: administrators of nuclear physics research programmes, politicians, interested non-experts, physics students looking for an overview, postgraduate, researcher. *Contemporary Physics*, 55(2):146–147, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Duxbury:2014:LBM

[3207] Geoffrey Duxbury. *Laser-Based Measurements for Time and Frequency Domain Applications: A Handbook*, by Pasquale Maddaloni, Marco Bellini, and Paolo De Natale, Scope: monograph, reference, review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 55(2):147–148, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2014:HAP

[3208] David J. Miller. *Handbook of Accelerator Physics and Engineering*, 2nd edition, by Alexander Wu Chao, Karl Hubert Mes, Maury Tigner and Frank Zimmermann, Scope: handbook. Level: postgraduate, researcher. *Contemporary Physics*, 55(2):148, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Professor:2014:FSS

[3209] S. J. Blundell Professor. *Frustrated Spin Systems*, (2nd ed.), edited by H. T. Diep, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(2):148–149, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Marnham:2014:QIT

[3210] Lachlan Marnham. *Quantum Information Theory and the Foundations of Quantum Mechanics*, by Christopher G. Timpson, Scope: review,

text book. Level: non-specialists, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(2):149, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2014:MCP

[3211] Juan A. Añel. *Mesoscale-Convective Processes in the Atmosphere*, by Robert J. Trapp, Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate, researcher, teacher. *Contemporary Physics*, 55 (2):149–150, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Downing:2014:EMM

[3212] Charles Downing. *Essential Mathematical Methods for the Physical Sciences & Student Solution Manual for Essential Mathematical Methods for the Physical Sciences*, by K. F. Riley and M. P. Hobson, Scope: textbook, solution manual. Level: undergraduate. *Contemporary Physics*, 55 (2):150–151, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Professor:2014:GMB

[3213] N. Riley Professor. *Granular Media; Between Fluid and Solid*, by Bruno Andreotti, Yoël Forterre and Olivier Pouliquen, Scope: monograph, reference. Level: postgraduate, researcher and specialist. *Contemporary Physics*, 55(2):151–152, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Professor:2014:SMM

[3214] S. J. Blundell Professor. *Statistical Mechanics of Magnetic Excitations*, From Spin Waves to Stripes and Checkerboards, by Enrico Rastelli, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 55(2): 152–153, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2014:CAN

[3215] Manuel Vogel. *The Cosmos: Astronomy in the New Millennium*, 4th edition, by Jay M. Pasachoff and Alex Filippenko, Scope: general interest, text book. Level: pre-university, undergraduate. *Contemporary Physics*, 55(2):153, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Osborn:2014:GTP

[3216] H. Osborn. *Gauge Theories in Particle Physics: A Practical Introduction*, Fourth Edition, Volumes 1 & 2, by Ian Aitchison and Anthony Hey, Scope: textbook. Level: advanced undergraduates, graduates. *Contemporary Physics*, 55(2):154, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stenholm:2014:MQQ

[3217] Stig Stenholm. *Mathematics of Quantization and Quantum Fields*, by Jan Dereziński and Christian Gérard, Scope: monograph. Level: specialist. *Contemporary Physics*, 55(2):154–155, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Osborn:2014:TPP

[3218] H. Osborn. *Three-Particle Physics and Dispersion Relation Theory*, by A. V. Anisovich, V. V. Anisovich, M. A. Matveev, V. A. Nikonov, J. Nyiri, and A. V. Sarantsev, Scope: monograph. Level: specialists. *Contemporary Physics*, 55(2):155–156, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2014:STS

[3219] B. Ishak. *String Theory and the Scientific Method*, by Richard Dawid, Scope: general interest. Level: specialists, scientists. *Contemporary Physics*, 55(2):156, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palmer:2014:LGP

[3220] T. N. Palmer. Lorenz, Gödel and Penrose: new perspectives on determinism and causality in fundamental physics. *Contemporary Physics*, 55(3): 157–178, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tsallis:2014:INE

[3221] Constantino Tsallis. An introduction to nonadditive entropies and a thermostatistical approach to inanimate and living matter. *Contemporary Physics*, 55(3):179–197, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Walker:2014:UST

[3222] Matthew G. Walker and Abraham Loeb. Is the universe simpler than ΛCDM? *Contemporary Physics*, 55(3):198–211, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Child:2014:QMM

[3223] M. S. Child. Quantum monodromy and molecular spectroscopy. *Contemporary Physics*, 55(3):212–221, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3224] Derry W. Jones. *The genesis of the Bohr atom*, Scope: review. Level: general readership, undergraduate, postgraduate, advanced undergraduate. *Contemporary Physics*, 55(3):222–225, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sheldon:2014:HBQ

[3225] Eric Sheldon. *The Higgs boson, its quantum-field interaction mechanism and its aftermath*. Scope: general interest. Level: general readership, non-specialists, teacher. *Contemporary Physics*, 55(3):226–230, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dombey:2014:CBH

[3226] Norman Dombey. *Churchill's Bomb: a hidden history of science, war and politics*, Scope: history of science. Level: general reader. *Contemporary Physics*, 55(3):231–234, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Licata:2014:SQO

[3227] Ignazio Licata. *In search of the quantum oneness*, Scope: review. Level: scientist. *Contemporary Physics*, 55(3):235–237, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sheldon:2014:NAS

[3228] Eric Sheldon. *The nuclear astrophysics of star-shine*, Scope: textbook. Level: advanced undergraduate, graduate, professional and specialist researcher, early career researcher. *Contemporary Physics*, 55(3):238–241, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2014:CCS

[3229] Peter J. Bussey. *Complexity is complex*, Scope: edited book. Level: general reader, specialist. *Contemporary Physics*, 55(3):242–245, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Marnham:2014:CIQ

[3230] Lachlan Marnham. *Conductor–Insulator Quantum Phase Transitions*, edited by Vladimir Dobrosavljevic, Nandini Trivedi, and James M. Valles, Jr., Scope: reference, review. Level: postgraduate, specialist, early career researcher, researcher, scientist. *Contemporary Physics*, 55 (3):246, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nicol:2014:PPR

[3231] Mark Nicol. *Physical Principles of Remote Sensing*, (3rd Edition), by W. G. Rees, Scope: handbook, text book. Level: undergraduate, postgraduate, advanced undergraduate, teacher, engineers. *Contemporary Physics*, 55(3):246–247, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2014:URI

[3232] Nikolaos E. Myridis. *Ultra-realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography*, by Hans Bjelkhagen and David Brotherton-Ratcliffe, Scope: handbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 55(3):247–248, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Khare:2014:PCM

[3233] Prashant Khare. *Physics of Continuous Media: Problems and Solutions in Electromagnetism, Fluid Mechanics and MHD*, by Grigory Vekstein, Scope: reference, text book. Level: postgraduate, advanced undergraduate, early career researcher, teacher, engineers. *Contemporary Physics*, 55(3):248–249, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nicol:2014:PSS

[3234] Mark Nicol. *Planetary Science: The Science of Planets around Stars*, Second Edition, by George H. A. Cole and Michael M. Woolfson, Scope: general interest, text book. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, scientist, engineers. *Contemporary Physics*, 55(3):249–250, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lancaster:2014:AME

[3235] Tom Lancaster. *Advanced Mechanics: From Euler's Determinism to Arnold's Chaos*, by S. G. Rajeev, Scope: textbook. Level: advanced

undergraduate. *Contemporary Physics*, 55(3):250, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Spurgeon:2014:ENS

[3236] Steven R. Spurgeon. *Experimental Neutron Scattering*, by B. T. M. Willis and C. J. Carlile, Scope: text book. Level: undergraduate. *Contemporary Physics*, 55(3):250–251, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2014:MPP

[3237] Peter J. Bussey. *Modern Particle Physics*, by Mark Thomson, Scope: textbook. Level: postgraduate, teacher. *Contemporary Physics*, 55(3): 251–252, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2014:FPS

[3238] Thomas Peters. *Fundamental Planetary Science: Physics, Chemistry and Habitability*, by Jack J. Lissauer and Imke de Pater, Scope: textbook, level: undergraduate. *Contemporary Physics*, 55(3):252, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Salamin:2014:SKA

[3239] Y. I. Salamin. *Schrödinger's Killer App: Race to Build the World's First Quantum Computer*, by Jonathan P. Dowling, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(3):252–254, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pierri-Galvao:2014:BCP

[3240] Dr. Monica Pierri-Galvao. *Basic Concepts in Physics: From the Cosmos to Quarks*, by Masud Chaichian, Hugo Perez Rojas and Anca Tureanu, Scope: review. Level: undergraduate. *Contemporary Physics*, 55 (3):254, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bengtsson:2014:TFS

[3241] Ingemar Bengtsson. *On the Topology and Future Stability of the Universe*, by Hans Ringström, Scope: monograph. Level: researcher. *Contemporary Physics*, 55(3):254–255, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2014:EPP

[3242] Manuel Vogel. *Extreme physics: properties and behaviour of matter at extreme conditions*, by Jeff Colvin and Jon Larsen, Scope: text book.

Level: advanced undergraduate. *Contemporary Physics*, 55(3):256, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nicol:2014:UUI

[3243] Mark Nicol. *Understanding the Universe: An Inquiry Approach to Astronomy and the Nature of Scientific Research*, by George Greenstein, Scope: text book. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 55(3):256–257, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:TSE

[3244] D. W. Jones. *A Tale of Seven Elements*, by Eric Scerri, Scope: accessible monograph. Level: undergraduate, general readership. *Contemporary Physics*, 55(3):257–258, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2014:APP

[3245] Mark Fox. *Atomic Physics: Precise Measurements and Ultracold Matter*, by Massimo Inguscio and Leonardo Fallani, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 55(3):258–259, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Munro:2014:HBV

[3246] Peter R. T. Munro. *Handbook of Biophotonics*: 3 Volume Set, edited by Jürgen Popp, Valery V. Tuchin, Arthur Chiou and Stefan H. Heinemann, Scope: handbook, reference. Level: specialist, scientist, engineers. *Contemporary Physics*, 55(3):259, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Casazza:2014:PCC

[3247] Marco Casazza. *The Principle of the Common Cause*, by Gábor Hofer-Szabó, Miklós Rédei and Lázló E. Szabó, Scope: monograph. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 55(3):260, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2014:EPE

[3248] Thomas Peters. *Econophysics and Physical Economics*, by Peter Richmond, Jürgen Mimkes and Stefan Hutzler, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(3):260–261, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Edmunds:2014:AMM

[3249] M. G. Edmunds. The Antikythera mechanism and the mechanical universe. *Contemporary Physics*, 55(4):263–285, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Battista:2014:SPS

[3250] F. Battista. Single particle sources and quantum heat fluctuations. *Contemporary Physics*, 55(4):286–301, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ropars:2014:SPS

[3251] Guy Ropars, Vasudevan Lakshminarayanan, and Albert Le Floch. The sunstone and polarised skylight: ancient Viking navigational tools? *Contemporary Physics*, 55(4):302–317, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Biondo:2014:MMB

[3252] A. E. Biondo, A. Pluchino, and A. Rapisarda. Micro and macro benefits of random investments in financial markets. *Contemporary Physics*, 55 (4):318–334, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:SRS

[3253] Derry W. Jones. *Serving the Reich: The Struggle for the Soul of Physics under Hitler*, by Philip Ball, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(4):335–336, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:CGH

[3254] Derry W. Jones. *Crystals in Glass: A Hidden Beauty*, by E. D. Zanotto, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(4):336–337, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2014:EPN

[3255] K. Alan Shore. *Electronic Processes in Non-crystalline Materials*, (Second Edition), by N. F. Mott and E. A. Davis, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(4):337, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2014:SCD

[3256] J. Rogel-Salazar. *Stochastic Calculus and Differential Equations for Physics and Finance*, by Joseph L. McCauley, Scope: review. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 55(4):338, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Fox:2014:QPS

[3257] Mark Fox. *Quantum Processes in Semiconductors*, (Fifth Edition), by Brian K. Ridley, Scope: text book. Level: postgraduate. *Contemporary Physics*, 55(4):338–339, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Khare:2014:SGE

[3258] Prashant Khare. *A Student's Guide to Entropy*, by Don S. Lemons, Scope: textbook. Level: undergraduate, early stage postgraduate. *Contemporary Physics*, 55(4):339, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2014:SIL

[3259] Nikolaos E. Myridis. *Scientific Inference: Learning from Data*, by Simon Vaughan, Scope: textbook. Level: undergraduate, advanced undergraduate, researcher, teacher, scientist, engineers. *Contemporary Physics*, 55 (4):339–340, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2014:PQM

[3260] Manuel Vogel. *The Physics of Quantum Mechanics*, by James Binney and David Skinner, Scope: text book. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 55(4):340–341, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2014:PRS

[3261] Peter J. Bussey. *The Physics of Reality: Space, Time, Matter, Cosmos*, edited by Richard L. Amoroso, Louis H. Kauffman and Peter Rowlands, Scope: conference proceedings. Level: specialist. *Contemporary Physics*, 55(4):341–342, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:HRG

[3262] D. G. C. Jones. *How the Ray Gun Got Its Zap: Odd Excursions into Optics*, by Stephen R. Wilk, Scope: review. Level: general readership,

non-specialists, undergraduate. *Contemporary Physics*, 55(4):342, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:AVS

[3263] Peter V. E. McClintock. *Astrobiology: A Very Short Introduction*, by David C. Catling, Scope: monograph. Level: general readership. *Contemporary Physics*, 55(4):342–344, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2014:FDG

[3264] K. Alan Shore. *Functional Differential Geometry*, by Gerald Jay Sussman and Jack Wisdom with Will Farr, Scope: textbook. Level: advanced undergraduate. *Contemporary Physics*, 55(4):344, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2014:IGB

[3265] K. Alan Shore. *Introduction to Graphene-Based Nanomaterials: From Electronic Structure to Quantum Transport*, by Luis E. F. Foa Torres, Stephan Roche and Jean-Christophe Charlier, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 55(4): 344–345, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2014:PEA

[3266] B. Ishak. *The Physics and Evolution of Active Galactic Nuclei*, by Hagai Netzer, Scope: monograph. Level: specialists. *Contemporary Physics*, 55 (4):345, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2014:NSP

[3267] Chih-Yueh Wang. *Neutron Stars and Pulsars (IAU S291): Challenges and Opportunities after 80 Years, Proceedings of the International Astronomical Union (IAU S279)*, edited by Joeri van Leeuwen., Scope: conference proceedings. Level: researcher, scientist. *Contemporary Physics*, 55(4):346–347, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2014:DMC

[3268] B. Ishak. *Dark Matter and Cosmic Web Story*, by Jaan Einasto, Scope: monograph. Level: general readership, specialists. *Contemporary Physics*, 55(4):347, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lovesey:2014:PSG

[3269] S. W. Lovesey. *Perspectives on Spin Glasses*, by Pierluigi Contucci and Cristian Giardinà, Scope: reference. Level: postgraduate. *Contemporary Physics*, 55(4):347–348, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Joseph:2014:MPE

[3270] Robert D. Joseph. *Magnificent Principia: exploring Isaac Newton's masterpiece*, by Colin Pask, Scope: general interest, monograph. Level: general readership, undergraduate, postgraduate, advanced undergraduate, teacher. *Contemporary Physics*, 55(4):348–349, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nikolopoulos:2014:CPE

[3271] Lampros Nikolopoulos. *Computational Physics*, 2nd Edition, by Jos Thijssen, Scope: review. Level: general readership. *Contemporary Physics*, 55(4):349–350, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Phelps:2014:WOP

[3272] Alan D. R. Phelps. *Waves and Oscillations in Plasmas*, by Hans L. Pécseli, Scope: text book. Level: undergraduate, postgraduate, advanced undergraduate, early career researcher. *Contemporary Physics*, 55(4): 350, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lawrie:2014:BHN

[3273] Ian D. Lawrie. *Black Holes — New Horizons*, edited by Sean Hayward, Scope: edited book. Level: specialist. *Contemporary Physics*, 55(4): 350–351, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Licata:2014:ESP

[3274] Ignazio Licata. *Energy Science, Principles, Technologies and Impacts*: Second Edition, by John Andrews and Nick Jelley, Scope: review. Level: general readership, undergraduate, early career researcher, teacher. *Contemporary Physics*, 55(4):351–352, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2014:IMN

[3275] Peter J. Dobson. *Introduction to Metal-nanoparticle Plasmonics*, by Matthew Pelton and Garnett W. Bryant, Scope: review. Level: postgrad-

uate, advanced undergraduate, researcher, scientist, engineers. *Contemporary Physics*, 55(4):352–353, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Phelps:2014:PRL

[3276] Alan D. R. Phelps. *Plasma Research at the Limit: From the International Space Station to Applications on Earth*, (with DVD-ROM), by Gregor Morfill, Yuri Baturin, and Vladimir Fortov. Scope: monograph. Level: general readership. *Contemporary Physics*, 55(4):353, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lovesey:2014:TIT

[3277] S. W. Lovesey. *Topological Insulators and Topological Superconductors*, by B. Andrei Bernevig with Taylor L. Hughes, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(4):353–354, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Stewart:2014:RHL

[3278] John M. Stewart. *Relativistic Hydrodynamics*, by Luciano Rezzolla and Olindo Zanotti, Scope: monograph, text book. Level: postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 55(4):354–355, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2014:GNP

[3279] A. H. Harker. *Graphene: A New Paradigm in Condensed Matter and Device Physics*, by E. L. Wolf, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 55(4):355, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2014:PTM

[3280] A. H. Harker. *Phase Transitions: Modern Applications*, (2nd edition), by Moshe Gitterman, Scope: text book. Level: postgraduate. *Contemporary Physics*, 55(4):355–356, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2014:JCM

[3281] Richard Shorter. *James Clerk Maxwell: Perspectives on His Life and Work*, edited by Raymond Flood, Mark McCartney, and Andrew Whitaker, Scope: Review. Level: general readership. *Contemporary Physics*, 55(4):356, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2014:QMG

[3282] Thomas Peters. *Quantum Mechanics*, by Gennaro Auletta, Mauro Fortunato and Giorgio Parisi, Scope: text book. Level: advanced undergraduate. *Contemporary Physics*, 55(4):357, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2014:HBB

[3283] Peter V. E. McClintock. *How Big is Big and How Small is Small: The Sizes of Everything and Why*, by Timothy Paul Smith, Scope: monograph. Level: general readership, non-specialists, scientists, engineers. *Contemporary Physics*, 55(4):357–358, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2014:SOW

[3284] Manuel Vogel. *The Science of Ocean Waves: Ripples, Tsunamis and Stormy Seas*, by J. B. Zirker, Scope: general interest. Level: general readership. *Contemporary Physics*, 55(4):358–359, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2014:IME

[3285] Richard Shorter. *An Introduction to Mechanics*, (2nd Edition), by Daniel Kleppner and Robert Kolenkow, Scope: review. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 55(4):359, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Smith:2014:ATS

[3286] Robert C. Smith. *Astrophysical Techniques*, Sixth Edition, by C. R. Kitchin, Scope: general interest, text book. Level: general readership, postgraduate, advanced undergraduate, teacher. *Contemporary Physics*, 55(4):359–360, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jones:2014:QWM

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[3350] Rob Appleby. *Beam Dynamics in High Energy Particle Accelerators*, by Andrzej Wolski, Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 56(2):242–243, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3351] Nikolaos E. Myridis. *Image processing and acquisition using Python*, by Ravishankar Chityala and Sridevi Pudipeddi, Scope: textbook. Level:

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[3364] B. Ishak. *Stellar Evolution Physics: Volume 2: Advanced Evolution of Single Stars*, Scope: monograph. Level: advanced undergraduates and specialists. *Contemporary Physics*, 56(3):379–380, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3367] Peter R. T. Munro. *Optical Antennas*, edited by Mario Agio and Andrea Alù, Scope: handbook, reference. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 56(3):388, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3373] Brian Cowan. *Translational Dynamics and Magnetic Resonance: Principles of Pulsed Gradient Spin Echo NMR*, by Paul T. Callaghan, Scope: monograph. Level: researcher. *Contemporary Physics*, 56(3):394–395, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3380] Miguel A. F. Sanjuán. *From Strange Simplicity to Complex Familiarity: A Treatise on Matter, Information, Life and Thought*, by Manfred Eigen, Scope: monograph. Level: advanced undergraduate. *Contemporary Physics*, 56(3):401–402, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3381] Derry W. Jones. *Waves and Particles: Two Essays on Fundamental Physics*, by Roger G. Newton, Scope: historical review. Level: general readership. *Contemporary Physics*, 56(3):402, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3382] Chris Linton. *Electromagnetic Scattering by Particles and Particle Groups: An Introduction*, Scope: monograph, textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 56(3): 402–403, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3384] Stephen J. Burns. *The Theory of Materials Failure*, by Richard M. Christensen, Scope: monograph. Level: postgraduate, advanced undergraduates. *Contemporary Physics*, 56(3):404, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3391] K. Alan Shore. *Nonlinear optics and photonics*, Scope: monograph, textbook. Level: postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 56(4):477–479, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3393] David L. Andrews. *Quantum Physics of Light and Matter: A Modern Introduction to Photons, Atoms and Many-Body Systems*, by Luca Salasnich, Scope: reference, textbook. Level: general readership, undergraduate, advanced undergraduate. *Contemporary Physics*, 56(4):483, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3396] A. N. Dobrynin and S. W. Lovesey. *Shedding light on matter*, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 56(4):489–492, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3397] Giovanni Volpe. *An Introduction to Practical Laboratory Optics*, by J. F. James, Scope: monograph, manual, guide. Level: early career researcher, researcher, specialist. *Contemporary Physics*, 56(4):493–495, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3398] Tom Lancaster. *Lectures on Classical Electrodynamics*, by Berthold-Georg Englert, Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist. *Con-*

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[3399] A. J. Leggett. *Physics and Necessity: Rationalist Pursuits from the Cartesian Past to the Quantum Present*, Scope: monograph. Level: undergraduate/specialist. *Contemporary Physics*, 56(4):497–499, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3400] B. Ishak. *Nearest Star: The Surprising Science of our Sun*, (2nd Edition), by Leon Golub and Jay M. Pasachoff, Scope: general interest. Level: general readership. *Contemporary Physics*, 56(4):500, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3401] S. W. Lovesey. *Solution Manual for Quantum Mechanics* (2nd edition), by Ahmed Ishtiaq, Fayyazuddin and Riazuddin, Scope: manual. Level: undergraduate. *Contemporary Physics*, 56(4):501, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3402] Amgad Salama. *Novel Porous Media Formulation for Multiphase Flow Conservation Equations*, by William T Sha, Scope: monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 56(4):501–502, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3403] Peter J. Bussey. *The Large Hadron Collider: The Extraordinary Story of the Higgs Boson and Other Stuff that will Blow Your Mind*, by Don Lincoln. Scope: general interest. Level: general reader. *Contemporary Physics*, 56(4):502, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3404] K. Alan Shore. *Modern Small Antennas*, by Kyohei Fujimoto and Hisashi Morishita, Scope: monograph. Level: specialist, engineers, early career researchers. *Contemporary Physics*, 56(4):502–503, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3406] Peter J. Bussey. *Mind and Reality. The Space–Time Window*, Scope: general interest. Level: general reader, researcher. *Contemporary Physics*, 56(4):504–505, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3407] Peter R. Hobson. *Measurement Instrumentation and Sensors Handbook Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement*, by J. G. Webster and H. Eren, Scope: reference, handbook. Level: non-specialists, undergraduate, advanced undergraduate, postgraduate, early career researcher, teacher, scientist, engineers. *Contemporary Physics*, 56(4):505–506, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3409] Andrew Resnick. *Lie groups and Lie algebras for physicists*, by Ashok Das and Susumu Okubo, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 56(4):506–507, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3410] K. Alan Shore. *Nonlinear Physics of Ecosystems*, by Ehud Meron, Scope: monograph. Level: specialist, early career researchers. *Contemporary Physics*, 56(4):507–508, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3412] Peter J. Bussey. *Proceedings of the Conference in Honour of the 90th Birthday of Freeman Dyson*, edited by K. K. Phua, L. C. Kwek, N. P. Chang, and A. H. Chang, Scope: conference proceedings. Level: postgraduate, researcher. *Contemporary Physics*, 56(4):508–509, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3414] Miguel A. F. Sanjuán. *A Certain Uncertainty. Nature's Random Ways*, by Mark P. Silverman, Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 56(4):510, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3415] Nigel John Mason. *An Introduction to Planets. Ours and Others; From Earth to Exoplanets*, by Therese Encrenaz, Scope: guide, general interest. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate. *Contemporary Physics*, 56(4):511, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3417] Dirk K. Morr. Crossover from quantum to classical transport. *Contemporary Physics*, 57(1):19–45, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3420] M. J. Duff. M-history without the M. *Contemporary Physics*, 57(1): 83–85, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3422] B. Ishak. *Stellar Evolution Physics — Volume 1. Physical Processes in Stellar Interiors*, Scope: monograph. Level: advanced undergraduates and specialists. *Contemporary Physics*, 57(1):90–92, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3424] Enda McGlynn. *Crystal Symmetry, Lattice Vibrations, and Optical Spectroscopy of Solids: A Group Theoretical Approach*, Scope: textbook. Level: postgraduate, early career researcher, researcher, specialist, scientist & engineers. *Contemporary Physics*, 57(1):96–99, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3425] Peter J. Bussey. Essay review: Illumination on information. *Information and the Nature of Reality: from Physics to Metaphysics*, edited by Paul Davies and Niels Henrik Gregersen, Cambridge, Cambridge University Press, 2014,. 488 pp. £12.99 (paperback). ISBN 978-1-107-68453-9. Scope: edited book. Level: general readership, researcher. *Contemporary Physics*, 57(1):100–103, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3426] Gunter M. Schütz. Faith and science: Friend or foe? *Contemporary Physics*, 57(1):104–109, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3427] B. Ishak. *Deep-sky Companions: The Messier Objects*, (2nd Edition), Scope: reference. Level: general readership. *Contemporary Physics*, 57 (1):110–112, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3428] Peter W. Milonni. *Lasers: the first 50 years*, Scope: review, general interest. Level: general readership, teacher, undergraduate. *Contemporary Physics*, 57(1):113–116, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3429] Prashant Khare. *Incompressible Flow*, 4th Edition, by Ronald L. Panton, Scope: textbook. Level: advanced undergraduate, early stage postgraduate. *Contemporary Physics*, 57(1):117–118, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3430] Michael C. Ogilvie. *Dynamics of the standard model*, 2nd edition, John F. Donoghue, Eugene Golowich and Barry R. Holstein, Scope: mono-

graph, reference. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 57(1):118–120, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3431] Richard Keesing. *Discrete or Continuous? The Quest for Fundamental Length in Physics*, by Amit Hagar, Scope: monograph. Level: advanced undergraduate, postgraduate. early career researcher, researcher. *Contemporary Physics*, 57(1):120–121, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2016:VMR

[3432] Nikolaos E. Myridis. *4D visualization of matter: recent collected works of Ahmed H. Zewail, Nobel Laureate*, by Nikolaos E. Myridis, Scope: anthology (article collection). Level: academics, researchers, postgraduates and specialists in: physical chemistry, biochemistry, chemical biology, biophysics, bioengineering, imaging, structural biology, cancer research. *Contemporary Physics*, 57(1):122, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2016:TND

[3433] K. Alan Shore. *Towards a new dimension: Exploring the Nanoscale*, by Anne Marcovich and Terry Shinn, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):122–124, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2016:NME

[3434] K. Alan Shore. *Nanoscale microwave engineering: Optical control of nanodevices*, by Charlotte Tripon-Canseliet and Jean Chazelas, Scope: monograph. Level: specialist. *Contemporary Physics*, 57(1):124–125, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:APP

[3435] B. Ishak. *Astrophysics Processes: The Physics of Astronomical Phenomena*, by Hale Bradt, Scope: textbook. Level: postgraduate, advanced undergraduate, teacher. *Contemporary Physics*, 57(1):125–126, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:IGC

[3436] B. Ishak. *An Introduction to Galaxies and Cosmology*, (2nd Edition), edited by Mark H. Jones, Robert J. A. Lambourne, and Stephen Serjeant,

Scope: textbook. Level: general readership, undergraduate. *Contemporary Physics*, 57(1):126–128, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:GSE

[3437] B. Ishak. *Gravitation and Spacetime*, (3rd Edition), by Hans C. Ohanian and Remo Ruffini, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 57(1):128, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:ATC

[3438] B. Ishak. *Astrophysics Through Computation: With Mathematica$^{(R)}$ Support*, by Brian Koberlein and David Meisel, Scope: textbook. Level: advanced undergraduates, graduate students. *Contemporary Physics*, 57 (1):129, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2016:QTC

[3439] K. Alan Shore. *Quantum Transport Calculations for Nanosystems*, by Kenji Hirose and Nobuhiko Kobayashi, Scope: monograph. Level: specialist, researcher, early career researcher. *Contemporary Physics*, 57(1): 129–130, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2016:BPH

[3440] K. Alan Shore. *Biomedical Photonic Handbook*, (3 Volumes), edited by Tuan Vo-Dinh, Scope: handbook. Level: specialist, engineers, early career researchers. *Contemporary Physics*, 57(1):130–131, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2016:HMO

[3441] K. Alan Shore. *History of Modern Optics and Optoelectronics Development in China*, edited by Fuxi Gan and Shouyun Tian, Scope: monograph. Level: general readership, engineers, early career researchers. *Contemporary Physics*, 57(1):131–132, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Close:2016:PAB

[3442] Frank Close. *Particle Accelerators: From Big Bang Physics to Hadron Therapy*, by Ugo Amaldi, Scope: monograph, review, postgraduate. Level: general reader, undergraduate, postgraduate, specialist. *Contemporary Physics*, 57(1):132–134, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2016:FSS

[3443] Manuel Vogel. *The Formation of the Solar System: Theories Old and New*, (2nd Edition), by Michael Woolfson, Scope: monograph, level: general readership. *Contemporary Physics*, 57(1):134–135, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[3444] Lynn E. Eberly and Joseph H. Eberly. *Bayesian Probability Theory: Applications in the Physical Science*, by W. von der Linden, V. Dose and U. von Toussaint. Scope: review. Level: general readership, non-specialists. *Contemporary Physics*, 57(1):135–136, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2016:SIS

[3445] Nigel John Mason. *The Science of Interstellar*, Scope: general interest. Level: general reader, non specialist. *Contemporary Physics*, 57(1): 136–137, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2016:EMB

[3446] Nigel John Mason. *Electrons in Molecules: From Basic Principles to Molecular Electronics*, by Jean Pierre Launay and Michel Verdaguer, Scope: reference, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 57(1): 137–138, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milburn:2016:QMT

[3447] G. J. Milburn. *Quantum Measurement Theory and its Applications*, by Kurt Jacobs, Scope: textbook. Level: postgraduate, early career researcher. *Contemporary Physics*, 57(1):138, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2016:CBO

[3448] Salvatore Esposito. *A Chorus of Bells and Other Scientific Inquiries*, by Jeremy Bernstein, Scope: article collection. Level: postgraduate, teacher, scientist. *Contemporary Physics*, 57(1):139, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2016:ISS

[3449] Nikolaos E. Myridis. *An Introduction to Sparse Stochastic Processes*, Scope: reference. Level: postgraduate, (early career) researcher, teacher,

specialist, scientist, engineers. *Contemporary Physics*, 57(1):139–140, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2016:MMU

[3450] A. H. Harker. *Materials Modelling using Density Functional Theory: Properties and Predictions*, by Giustino Feliciano, Scope: monograph. Level: advanced undergraduate, postgraduate, early stage researcher. *Contemporary Physics*, 57(1):140–141, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2016:SBB

[3451] A. H. Harker. *Semiconductors: Bonds and Bands*, by David K. Ferry, Scope: textbook. Level: postgraduate. *Contemporary Physics*, 57(1): 141, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2016:PTM

[3452] A. H. Harker. *Phase transitions in materials*, Scope: textbook. Level: advanced undergraduate; postgraduate, early stage researcher. *Contemporary Physics*, 57(1):141–142, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Joseph:2016:UFG

[3453] Robert D. Joseph. *The Universal Force: Gravity — Creator of Worlds*, Scope: monograph. Level: general reader. *Contemporary Physics*, 57 (1):142, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2016:MOR

[3454] Peter V. E. McClintock. *Mid-Ocean Ridges*, Scope: monograph. Level: undergraduates, graduate students, interdisciplinary researchers. *Contemporary Physics*, 57(1):143, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:UCU

[3455] B. Ishak. *Unseen Cosmos: The Universe in Radio*, Scope: reference, general interest. Level: general readership. *Contemporary Physics*, 57 (1):143–144, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2016:LSH

[3456] B. Ishak. *Living with the Stars: how the human body is connected to the life cycles of the Earth, the Planets, and the Stars*, Scope: general interest. Level: general readership. *Contemporary Physics*, 57(1):144, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

McClintock:2016:EVB

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Howard:2019:BRSa

[4029] Eric Howard. Book review: *String fields, higher spins and number theory*, by Polyakov Dimitri, Singapore, World Scientific, 2018, 170 pp., $88.00 (hardcover), ISBN 978-981-3233-39-3. *Contemporary Physics*, 60 (4):328–329, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Ishak:2019:BRE

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[4032] Stephen J. Blundell. Book review: *A review of modern ophthalmic optics*, edited by José Alonso, José A. Gómez-Pedrero and Juan A. Quiroga, Cambridge, Cambridge University Press, 2019, 546 pp., £65 (hardback), ISBN 978-1-107-11074-8. *Contemporary Physics*, 60(4):330–331, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4037] B. Ishak. Book review: *Finding our place in the solar system: the scientific story of the Copernican revolution*, by T. Timberlake and P. Wallace, Cambridge, Cambridge University Press, 2019, 378 pp., £29.99 (hardback), ISBN 978-1-107-18229-5. *Contemporary Physics*, 60(4):334, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4040] B. Ishak. Book review: *An introduction to radio astronomy*, 4th edition, by B. F. Burke, F. Graham-Smith and P. N. Wilkinson, Cambridge, Cambridge University Press, 2019, 540 pp., £59.99 (hardback), ISBN 978-1-107-18941-6. *Contemporary Physics*, 60(4):335–336, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4048] B. Ishak. Book review: *Mercury: the view after MESSENGER*, edited by S. C. Solomon, L. R. Nittler and B. J. Anderson, Cambridge, Cambridge University Press, 2018, 583 pp., £42.99 (hardback), ISBN: 978-1-107-15445-2. *Contemporary Physics*, 60(4):341, 2019. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Gururajan:2020:BRS

[4052] M. P. Gururajan. Book review: *Statistical thermodynamics: an engineering approach*, by J. W. Daily, Cambridge, Cambridge University Press, 2019, 263 pages, £72.99 (Hardback), ISBN: 978-1-108-41531-6. Scope: textbook. Level: postgraduate, early career researcher. *Contemporary Physics*, 61(1):51, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4054] Andrew Resnick. Book review: *Airless bodies of the inner solar system*, by J. A. Grier, A. S. Rivkin, Cambridge, Elsevier, 2018, 283 pp., £76.95 (Paperback), ISBN 978-0-12-809279-8. Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, teacher, scientist. *Contemporary Physics*, 61(1):52–53, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2020:BRP

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Blundell:2020:BRG

[4056] Stephen J. Blundell. Book review: *Group theory for physicists*, 2nd edition, by Z. Ma, Singapore, World Scientific, 2019, 655 pp., £115.00 (hardback), ISBN: 978-981-327-738-0. Scope: monograph. Level: researcher. *Contemporary Physics*, 61(1):53–54, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Anel:2020:BRS

[4057] Juan A. Añel. Book review: *Selling science: how to use business skills to win support for scientific research*, by Steven Judge and Richard Lucas, London, World Scientific, 2019, 98pp, £40.00 (hardback), ISBN 978-1-78634-572-1. Scope: general interest. Level: general readership. *Contemporary Physics*, 61(1):54, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2020:BRMa

[4058] Manuel Vogel. Book review: *Meteoroids: sources of meteors on Earth and beyond*, dited by Galina O. Ryabova, David J. Asher, and Margaret D. Campbell-Brown, Cambridge, Cambridge University Press, 2019, 318 pp., £110 (hardback), ISBN: 978-110-8426-71-8. Scope: edited book. Level: advanced undergraduates, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 61(1): 54–55, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Taylor:2020:BRM

[4059] Fred Taylor. Book review: *Mysteries of Mars*, by F. V. De Blasio, Berlin, Springer-Praxis, 2019, 189 pp., £22.99 (paperback), ISBN: 978-3-319-74783-5. Scope: monograph. Level: general. *Contemporary Physics*, 61 (1):55, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRL

[4060] Muhammad Mahmood Ali. Book review: *Lightwave communications*, by G. C. Papen and R. Blahut, Cambridge, Cambridge University Press, 2019, 970 pp., £79.99 (hardback), ISBN 978-1-108-42756-2. Scope: review, monograph, handbook, guide, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):55–56, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Clayton:2020:BRT

[4061] John D. Clayton. Book review: *Tensor-valued random fields for continuum physics*, 1st edition, by Anatoliy Malyarenko and Martin Ostoja-Starzewski, Cambridge Monographs on Mathematical Physics, Cambridge, Cambridge University Press, 2019, 310 pp., $145 USD (hardback), ISBN 978-1-108-42985-6. Scope: monograph. Level: postgraduate, specialist. *Contemporary Physics*, 61(1):56–58, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2020:BRIa

[4062] Stephen H. Ashworth. Book review: *Introduction to electricity and magnetism*, by J. D. Walecka, Singapore, World Scientific, 2018, 272 pp., £75 (hardback), ISBN: 978-981-327-206-4, Scope: review. Level: undergraduate. Specialist. *Contemporary Physics*, 61(1):58–59, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRL

[4063] K. Alan Shore. Book review: *Lectures on astrophysics*, by S. Weinberg, Cambridge, Cambridge University Press, 2020, 226 pp., £34.99 (hardback), ISBN 978-1-108-41507-1. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(1): 59–60, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRG

[4064] K. Alan Shore. Book review: *Gravity! The quest for gravitational waves*, by Pierre Binêtruy, Oxford, Oxford University Press, 2018, 245 pp., 19.99 (hardback), ISBN: 978-0-19-879651-0. Scope: monograph. Level: general readership. *Contemporary Physics*, 61(1):60–61, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2020:BRC

[4065] K. Alan Shore. Book review: *Cosmic discovery: the search, scope and heritage of astronomy*, by M. Harwit, Cambridge, Cambridge University Press, 2019, 348 pp., £34.99 (paperback), ISBN: 978-1-108-72204-9. Scope: monograph. Level: general readership. *Contemporary Physics*, 61 (1):61–62, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2020:BRI

[4066] Stefano Scali. Book review: *Introduction to quantum mechanics*, 3rd edition, by D.J. Griffiths and D.F. Schroeter, Cambridge, Cambridge

University Press, 2018, 495 pp., £54.99 (hardback), ISBN: 978-1-107-18963-8. Scope: textbook. Level: undergraduate, advanced undergraduate. *Contemporary Physics*, 61(1):62, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2020:BRN

[4067] Manuel Vogel. Book review: *New perspectives on Einstein's $E = mc^2$*, World scientific, by Y. S. Kim and M. E. Noz, Singapore, World Scientific, 2018, 200 pp., $78.00 (hardback), ISBN 978-981-3237-70-4. Scope: monograph. Level: researcher, specialist, scientist. *Contemporary Physics*, 61 (1):62–63, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRP

[4068] Eric Howard. Book review: *Physics on Ultracold quantum gases*, by Y. Han, W. Yi and W. Zhang, Singapore, World Scientific, 2018, 288, $98.00 (Hardback), ISBN: 978-981-327-075-6. Scope: review. Level: postgraduate, early career researcher, researcher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):63–64, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRS

[4069] Peter J. Bussey. Book review: *Schrödinger's mechanics: interpretation*, by D. B. Cook, Singapore, World Scientific, 2019, 196 pp., £69 (hardback), ISBN: 978-1-78634-490-8. Scope: monograph; Level: specialist. *Contemporary Physics*, 61(1):64, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2020:BRG

[4070] Stefano Scali. Book review: *A guide to mathematical methods for physicists — advanced topics and applications*, by M. Petrini, G. Pradisi, A. Zaffaroni, London, World Scientific, 2018, 308 pp., $48.00 (paperback), ISBN 978-1-78634-704-6. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(1):64–65, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2020:BRV

[4071] Miguel A. F. Sanjuán. Book review: *Vibrations*, 3rd edition, by Balakumar Balachandran and Edward B. Magrab, Cambridge, UK, Cambridge University Press, 2018, 723 pp., £87.99 (hardback), ISBN: 978-1-108-42731-9. Scope: textbook, reference. Level: undergraduate, advanced undergraduate, postgraduate, teacher, engineers. *Contemporary Physics*,

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Gururajan:2020:BRM

[4072] M. P. Gururajan. Book review: *A modern course in transport phenomena*, by D. C. Venerus and H. C. Öttinger, Cambridge, UK, Cambridge University Press, 2018, 508 pp., £74.99 (hardback), ISBN 978-1-107-12920-7. Scope: reference, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(1):66–67, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRN

[4073] Peter J. Bussey. Book review: *Niels Bohr: a very short introduction*, by J. L. Heilbron, Oxford, Oxford University Press, 2020, 160 pp., $11.95 (paperback), ISBN 978-0-19-881926-4. Scope: general interest, biography. Level: scientist. *Contemporary Physics*, 61(1):67–68, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4075] Ben J. Powell. Emergent particles and gauge fields in quantum matter. *Contemporary Physics*, 61(2):96–131, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Scali:2020:BRP

[4077] Stefano Scali. Book review: *Physical mathematics*, 2nd edition, by Kevin Cahill, Cambridge, UK, Cambridge University Press, 2019, 757 pp., £64.99 (hardback), ISBN 978-1-108-47003-2. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher. *Contemporary Physics*, 61(2):146, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRE

[4078] Muhammad Mahmood Ali. Book review: *Experimental methods for science and engineering students: an introduction to the analysis and presentation of data*, 2nd edition. L. Kirkup, Cambridge, Cambridge University Press, 2019, 239 pp., £37.99 (hardback), ISBN: 978-1-108-41846-1. Scope: monograph, handbook, guide, textbook. Level: undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(2):146–147, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRX

[4079] Andrew Resnick. Book review: *"X-ray Microscopy"*, by Chris Jacobsen, Cambridge, UK, Cambridge University Press, University Printing House, 2020, $135, 579 pp., ISBN: 978-1-107-07657-0. Scope: Monograph. Level: advanced undergraduate student, graduate student. *Contemporary Physics*, 61(2):147–148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRW

[4080] Andrew Resnick. Book review: *Waves and rays in seismology: answers to unasked questions*, 2nd edition, by Michael A. Slawinski, Singapore, World Scientific, 2018, 576 pp., £140 (hardback), ISBN: 978-981-3239-87-6. Scope: monograph. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(2):148, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2020:BRI

[4081] A. H. Harker. Book review: *Introduction to graphene-based nanomaterials: from electronic structure to quantum transport*, 2nd edition, by Luis E. F. Foa Torres, Stephan Roche and Jean-Christophe Charlier, Cambridge, UK, Cambridge University Press, 2020, 15pp. + 461pp., £74.99 (hardback), ISBN: 978-1-108-47699-7. Scope: textbook. Level: early stage researcher, postgraduate. *Contemporary Physics*, 61(2):149, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barber:2020:BRC

[4082] David C. Barber. Book review: *The cosmic mystery tour*, by N. Mee, Oxford, Oxford University Press, 2019, 207 pp., £16.99 (hardback), ISBN: 978-019-8831-86-0. Scope: review. Level: general readership. *Contemporary Physics*, 61(2):149–150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2020:BRE

[4083] Andrew Resnick. Book review: *The essence of crystallography*, by Mark Ladd, Singapore, World Scientific, 2020, 532 pp., £105 (hardback), ISBN: 978-178-6346315. Level: advanced undergraduate, postgraduate, early career researcher. Scope: textbook. *Contemporary Physics*, 61(2):150, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2020:BRP

[4084] Salvatore Esposito. Book review: *Physics problems for aspiring physical scientists and engineers*, by K. Riley, Cambridge, UK, Cambridge University Press, 2019, 335 pp., £24.99 (paperback), ISBN: 978-1-1087-0130-3. Scope: reference. Level: pre-university, undergraduate, teacher. *Contemporary Physics*, 61(2):150–151, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRL

[4085] Eric Howard. Book review: *Lectures on the infrared structure of gravity and gauge theory*, by A. Strominger, Princeton, New Jersey, Princeton University Press, 2018, 200 pp., £41.95 (Paperback), ISBN 978-0-691-17973-5. Scope: review. Level: postgraduate, early career researcher, researcher, scientist. *Contemporary Physics*, 61(2):151–152, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRC

[4086] R. S. Shorter. Book review: *Competitive physics: mechanics and waves*, by J. Wang and B. Ricardo, Singapore, World Scientific, 2018, 832 pp., $68.00 (paperback), ISBN: 978-981-323-518-2. Scope: general interest, textbook. Level: general readership, pre-university, undergraduate. *Contemporary Physics*, 61(2):152–153, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Millen:2020:QEM

[4087] James Millen and Benjamin A. Stickler. Quantum experiments with microscale particles. *Contemporary Physics*, 61(3):155–168, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vincent:2020:IDD

[4088] U. E. Vincent and O. Kolebaje. Introduction to the dynamics of driven nonlinear systems. *Contemporary Physics*, 61(3):169–192, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Nurgalieva:2020:TQT

[4089] Nuriya Nurgalieva and Renato Renner. Testing quantum theory with thought experiments. *Contemporary Physics*, 61(3):193–216, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRR

[4090] B. Ishak. Book review: *Red Dwarfs: their geological, chemical, and biological potential for life* (2nd ed.). *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2020:BRSa

[4091] B. Ishak. Book review: *Star maps: history, artistry, and cartography*, 3rd edition, by N. Kanas, Switzerland, Springer, 2019, 563 pp, £39.99 (hardback), ISBN 978-3-030-13612-3. *Contemporary Physics*, 61(3):217, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2020:BRP

[4092] R. S. Shorter. Book review: *Principles of optics*, 7th edition — 60th anniversary edition, by M. Born and E. Wolf, Cambridge, Cambridge University Press, 2019, 992 pp., £54.99 (hardback), ISBN: 978-1-108-47743-7. *Contemporary Physics*, 61(3):217–218, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRQ

[4093] Nikolaos E. Myridis. Book review: *Quantum concepts in the social, ecological and biological sciences*, by F. Bagarello, Cambridge, Cambridge University Press, 2019, 300 pp., £59.99 (hardback), ISBN: 978-1-108-49212-6. *Contemporary Physics*, 61(3):218–219, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4094] Toni Shiroka. Book review: *Thermodynamics of magnetizing materials and superconductors*, by Vladimir Kozhevnikov, Boca Raton, CRC Press, 2019, 133 pp., £50.00 (hardback), ISBN: 978-1-138-49993-5. *Contemporary Physics*, 61(3):219–220, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4095] Toni Shiroka. Book review: *Application-driven quantum and statistical physics: a short course for future scientists and engineers, volume 2: equilibrium*, by J. M. Gillet, London, World Scientific, 2019, 314 pp., $45.00 (paperback), ISBN: 978-178-6347-03-9. *Contemporary Physics*,

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Shiroka:2020:BRI

[4096] Toni Shiroka. Book review: *Introduction to solid state physics*, by A. Aharony and O. Entin-Wohlman, Singapore, World Scientific, 2018, 640 pp., $148.00 (hardback), ISBN: 978-981-3272-24-8. *Contemporary Physics*, 61(3):221–222, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRM

[4097] Robert S. MacKay. Book review: *Modern thermodynamics for chemists and biochemists*, by D. Sherwood and P. Dalby, Oxford, Oxford University Press, 2018, 912 pp., £45 (paperback), ISBN: 978-0-19-878470-8. *Contemporary Physics*, 61(3):222–223, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4098] Eric Howard. Book review: *Topological phase transitions and new developments*, by Lars Brink, Mike Gunn, Jorge V Jose, John Michael Kosterlitz and Kok Khoo Phua, Singapore, World Scientific, 2018, 264 pp., $78.00 (hardback), ISBN: 978-981-327-133-3. *Contemporary Physics*, 61(3):224, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2020:BRC

[4099] Nikolaos E. Myridis. Book review: *Complexity science: an introduction*, edited by M. A. Peletier, R. A. van Santen, and E. Steur, Singapore, World Scientific, 2019, 428 pp., £120.00 (hardback), ISBN 978-981-323-959-3. *Contemporary Physics*, 61(3):224–226, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRE

[4100] Francisco Caruso. Book review: *Ether and modernity*, edited by J. Navarro, Oxford, UK, Oxford University Press, 2018, 272 pp., £65.00 (hardback), ISBN 978-0-19-879725-8. *Contemporary Physics*, 61(3):226–227, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4101] Jess McIver and D. H. Shoemaker. Discovering gravitational waves with Advanced LIGO. *Contemporary Physics*, 61(4):229–255, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4103] Carl A. Campugan, Kylie R. Dunning, and Kishan Dholakia. Optical manipulation: a step change for biomedical science. *Contemporary Physics*, 61(4):277–294, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Ishak:2020:BRSb

[4105] B. Ishak. Book review: *A student's guide to the Schrödinger equation*, by Daniel A. Fleisch, Cambridge University Press, 2020, $24.99 (Paperback), ISBN 978-1-108-81978-7. Scope: guide, textbook. Level: advanced undergraduate. *Contemporary Physics*, 61(4):298, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRP

[4106] Muhammad Mahmood Ali and Gabriel Leen. Book review: *From photons to atoms: the electromagnetic nature of matter*, by D. Funaro, Singapore, World Scientific Publishing Co. Pte. Ltd., 2019, 296 pp., £95.00 (hardback), ISBN: 978-981-12-0423-4. Scope: reference, monograph, general interest. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4): 298–299, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2020:BRP

[4107] Robert S. MacKay. Book review: *The physics of gamma-ray bursts*, by Bing Zhang, Cambridge, Cambridge University Press, 2019, 579 pp., $79.99 (hardback), ISBN 978-1-107-02761-9. Scope: monograph, Level: researchers. *Contemporary Physics*, 61(4):299–300, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRM

[4108] Eric Howard. Book review: *Modified gravity: progresses and outlook of theories, numerical techniques and observational tests*, edited by Baojiu Li and Kazuya Koyama, Singapore, World Scientific, 2019, 313 pp., $98 (hardback), ISBN: 978-981-327-399-3. Scope: review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4): 300–301, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Tennyson:2020:BRC

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Ashworth:2020:BRIb

[4110] Stephen H. Ashworth. Book review: *The iodine molecule: insights into intra- and intermolecular perturbation in diatomic molecules*, by S. Lukashov, A. Petrov, and A. Pravilov, Cham, Springer, 2018, 199 pp., £74.99 (hardback), ISBN: 978-3-319-70071-7. Scope: review. Level: researcher. Specialist. Scientist. *Contemporary Physics*, 61(4):302–303, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2020:BRM

[4111] Chih-Yueh Wang. Book review: *Measurements, mechanisms, and models of heat transport*, by A. M. Hofmeister, Elsevier, 2018, 440 pp., £65.41 (paperback), ISBN 978-0-12-809981-0. Scope: monograph. Level: postgraduate, researcher, scientist. *Contemporary Physics*, 61(4):303–304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAa

[4112] David J. Miller. Book review: *Astronomical spectroscopy: an introduction to the atomic and molecular physics of astronomical spectroscopy*, by J. Tennyson, Singapore, World Scientific, 2019, 264 pp., £33.00 (paperback), ISBN 978-1-78634-707-7. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 61(4):304, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Caruso:2020:BRM

[4113] Francisco Caruso. Book review: *The Majorana Case: letters, documents, testimonies*, by Erasmo Recami, Singapore, World Scientific, 2020, 400 pp., £29.90 (paperback), ISBN 978-981-12-0769-3. Scope: book, general interest. Level: undergraduate, advanced undergraduate, postgraduate, early career research, historian of science, teacher, and specialist. *Contemporary Physics*, 61(4):304–305, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRAb

[4114] David J. Miller. Book review: *About stars: their formation, evolution, compositions, locations and companions*, by Michael M. Woolfson, Singapore, World Scientific, 2019, \$78/£75 (hardback), \$38/£35 (paperback), ISBN 978-1-78634-712-1 (hardback), 978-1-78634-725-1 (paperback). Scope: textbook, with problems and specimen answers. Level: Physics or Astronomy students or professionals. *Contemporary Physics*, 61(4):305–307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2020:BRSa

[4115] David J. Miller. Book review: *The sun today*, by Claudio Vita-Finzi, Cham, Switzerland, Springer, 2018, 111 pp., £9.99 (paperback), ISBN 978-3-030-04078-9. Scope: general interest. Level: general readership. *Contemporary Physics*, 61(4):307, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2020:BRMb

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Miller:2020:BRSb

[4117] David J. Miller. Book review: *Stephen Hawking; a memoir of friendship and physics*, by Leonard Mlodinow, New York, Allen Lane, 2020, 240 pp., £20.00 (Hardback), ISBN: 978-0-241-41113-1. Scope: biography, with added science. Level: general readers, undergraduates, high school students. *Contemporary Physics*, 61(4):308–309, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Cassidy:2020:BRI

[4118] David Cassidy. Book review: *An introduction to cold and ultracold chemistry: atoms, molecules, ions and Rydbergs*, by Jesús Pérez Ríos, Cham, Springer, 2020, 267 pp., £59.99 (E-Book), ISBN: 978-3-030-55936-6. Scope: text book. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 61(4):309–310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2020:BRS

[4119] Eric Howard. Book review: *Synthetic spin-orbit coupling in cold atoms*, edited by Wei Zhang, Wei Li and Carlos A. R. Sá Melo, Singapore, World Scientific, 2018, 308 pp., £84.10 (hardback), ISBN: 978-981-327-252-1. Scope: review. Level: early career researcher, researcher. *Contemporary Physics*, 61(4):310, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ali:2020:BRC

[4120] Muhammad Mahmood Ali. Book review: *Computational acoustics: theory and implementation*, by D. R. Bergman, Hoboken, NJ, Wiley, 2018, 296 pp., £99.95 (hardcover), ISBN: 978-1-119-27728-6. Scope: reference, guide, general interest, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 61(4):310–311, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pospisil:2020:BRP

[4121] Christina Pospisil. Book review: *Principles of space-time-matter: cosmology, particles and waves in five dimensions*, by P. S. Wesson and J. M. Overduin, Singapore, World Scientific, 2019, 262 pp., £85.00 (Hardback), ISBN: 978-981-323-577-9. Scope: review. Level: early career researcher. *Contemporary Physics*, 61(4):311–312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2020:BRE

[4122] Matt Probert. Book review: *Electronic structure: basic theory and practical methods*, 2nd edition, by Richard M. Martin, Cambridge, Cambridge University Press, 2020, £64.99, ISBN 978-1-108-42990-0. Level: postgraduate, early career researcher, researcher. Scope: reference text. *Contemporary Physics*, 61(4):312, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2020:BRO

[4123] Peter J. Bussey. Book review: *Origin and evolution of the universe. From Big Bang to exobiology*, 2nd edition, edited by M. A. Malkan and B. Zuckerman, Singapore, World Scientific, 2020, xiv + 232 pp., £75 (hardback), £30 (softback), ISBN 978-981-12-0645-0. Level: undergraduate, teacher. Scope: guide, edited book. *Contemporary Physics*, 61(4): 312–313, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lukishova:2021:IRP

[4124] Svetlana G. Lukishova, Anatoly V. Masalov, and Victor N. Zadkov. Icons of Russian physics: From the Lebedev Scientific School in Physics to the Lebedev Physical Institute. *Contemporary Physics*, 62(1):1–13, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4125] S. J. Rose and P. W. Hatfield. Astronomy domine: advancing science with a burning plasma. *Contemporary Physics*, 62(1):14–23, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4126] Elizabeth Laier English, Ali Ashkhasi, and Peter Whibberley. Distributing time by fibre. *Contemporary Physics*, 62(1):24–38, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4128] Chih-Yueh Wang. Principia and magnificent Principia. *Contemporary Physics*, 62(1):42–45, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuan:2021:BRM

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Harker:2021:BRPa

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Pospisil:2021:BRS

[4131] Christina Pospisil. Book review: *String theory in a nutshell*, 2nd edition, edited by Elias Kiritsis, Princeton University Press, 2019, 888 pp., $95 (hardback), ISBN 978-0-691-15579-1. *Contemporary Physics*, 62(1): 50–51, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRP

[4132] Miriam R. Aczel. Book review: *Practical alchemy: a memoir*, Walter A. Harrison, Hackensack, NJ, World Scientific, 2018, 176 pp., $28.00 (paperback), ISBN: 978-981-327-831-8. *Contemporary Physics*, 62(1): 51–52, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Aczel:2021:BRC

[4133] Miriam R. Aczel. Book review: *The cosmos: astronomy in the new millennium*, 5th edition. *Contemporary Physics*, 62(1):52–53, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRM

[4134] Peter J. Bussey. Book review: *Modern quantum mechanics*. *Contemporary Physics*, 62(1):53–54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bengtsson:2021:BRD

[4135] Ingemar Bengtsson. Book review: *The discovery of cosmic voids* by Laird A. Thompson, Cambridge, Cambridge University Press, 2020, 290 pp., £39.99 (hardback), ISBN 978-1-108-49113-6. *Contemporary Physics*, 62 (1):54, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNa

[4136] Manuel Vogel. Book review: *The NASA Kepler mission*, edited by Steve B. Howell, Bristol, IOP Publishing, 2020, 272 pp., $190 (hardback), ISBN

978-0-7503-2294-2. *Contemporary Physics*, 62(1):55, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2021:BRQ

[4137] Stephen H. Ashworth. Book review: *Quantum space*, y Jim Baggott, Oxford, Oxford University Press, 2018, £20.00 (hardback), ISBN 978-0-19-880911-1. *Contemporary Physics*, 62(1):55–56, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gaunt:2021:BRC

[4138] Jonathan Richard Gaunt. Book review: *Coherent states in gauge theories and applications in collider physics*, by M. Greco, World Scientific, 2019, 172 pp., £75 (Hardback), ISBN: 978-981-12-1389-2. *Contemporary Physics*, 62(1):56–57, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRI

[4139] Mario Bertolotti. Book review: *An introduction to quantum optics: an open system approach*, by Perry Rice, Bristol, UK, IoP Publishing, 2020, xii+225 pp. with figures, $95.00 (e-book), ISBN 978-0-7503-1713-9. *Contemporary Physics*, 62(1):57–58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bertolotti:2021:BRE

[4140] Mario Bertolotti. Book review: *Electromagnetic waves and lasers*, 2nd edition, by Wayne D. Kimura, IOP Science, Bristol, UK, 2020, xv + 142 pp. with figures, $159.00 (paperback/hardback), ISBN: 978-0-7503-3521-8. *Contemporary Physics*, 62(1):58, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRS

[4141] Eric Howard. Book review: *Semiclassical and stochastic gravity: quantum field effects on curved spacetime*, Bei-Lok B. Hu and Enric Verdaguer, Cambridge, Cambridge University Press, 2020, 614 pp., £155.00 (hardback), ISBN: 978-0-521-19357-3. *Contemporary Physics*, 62(1):58–59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRB

[4142] R. S. Shorter. Book review: *The Bohr atom: a guide*, by Bruce Cameron Reed, Bristol, IOP Science, 2020, 104 pp., $159.00 (E-book), Online ISBN 978-0-7503-3611-6; Print ISBN: 978-0-7503-3609-3. *Contemporary*

Physics, 62(1):59, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

DeAngelis:2021:BRC

[4143] Alessandro De Angelis. Book review: *Cosmic messengers: the limits of astronomy in an unruly universe*, by Martin Harwit, Cambridge, Cambridge University Press, 2021, 396 pp., $32.00 (E-Book), ISBN: 978-1-108-90616-6. *Contemporary Physics*, 62(1):59–61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rogel-Salazar:2021:BRP

[4144] Jesus Rogel-Salazar. Book review: *Physics of digital photography*, 2nd edition, by Andy Rowlands, Bristol, UK, IOP Science, 2020, 165 pp., $159.00 (E-Book), ISBN: 978-0-7503-2558-5. *Contemporary Physics*, 62 (1):61, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRD

[4145] Giovanni Volpe. Book review: *Don't be afraid of physics: quantum mechanics, relativity and cosmology for everyone*, by Ross Barrett and Pier Paolo Delsanto, Cham, Switzerland, Springer Nature, 2021, 293 pp., £17.99 (e-book), ISBN 978-3-030-63409-4. *Contemporary Physics*, 62 (1):61–62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ishak:2021:BRI

[4146] B. Ishak. Book review: *Introduction to galaxy formation and evolution: from primordial gas to present-day galaxies*, by Andrea Cimatti, Filippo Fraternali, and Carlo Nipoti, Cambridge, Cambridge University Press, 2019, 582 pages, $69.99 (hardback), ISBN: 978-1-107-13476-8. *Contemporary Physics*, 62(1):62, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRM

[4147] R. S. Shorter. Book review: *Modern physics: a critical approach*, edited by Canio Noce, Bristol, Institute of Physics Publishing, 2020, 450 pp., £64 (hardback), ISBN: 978-0-7503-2676-6. *Contemporary Physics*, 62 (1):62–63, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPa

[4148] Mogadalai P. Gururajan. Book review: *Probability and statistics in the physical sciences*, 3rd edition, by Byron P. Roe, New York, Springer

Nature Switzerland, 2020, 285 pp., EUR 46 (e-book), ISBN: 978-3-030-53693-0. *Contemporary Physics*, 62(1):63–64, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Andrews:2021:BRM

[4149] David Andrews. Book review: *Mind and the cosmic order: how the mind creates the features & structure of all things, and why this insight transforms physics*, by Charles Pinter, Springer, ISBN: 978-3-030-50083-2 (e-book). *Contemporary Physics*, 62(1):64–65, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRP

[4150] Nigel John Mason. Book review: *Planetary diversity: rocky planet processes and their observational signatures*, y Elizabeth J. Tasker, Yuka Fujii, Matthieu Laneuville, Cayman Unterborn, Steven J. Desch and Hilairy E. Hartnett, IOP Publishing, 2020, 266 pp., $159.00 (e-book), ISBN: 978-0-7503-2140-2. *Contemporary Physics*, 62(1):65–66, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRL

[4151] N. E. Myridis. Book review: *The large-scale structure of the Universe*, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton University Press, 2020, 448 pp., £50.00 (paperback), ISBN: 978-0-691-20983-8. *Contemporary Physics*, 62(1):66–67, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Morozov:2021:SPD

[4152] Dmitry V. Morozov, Alessandro Casaburi, and Robert H. Hadfield. Superconducting photon detectors. *Contemporary Physics*, 62(2):69–91, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zuk:2021:BIC

[4153] Paweł Jan Zuk. A brief introduction to contemporary electrokinetics. *Contemporary Physics*, 62(2):92–104, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRD

[4154] Peter J. Bussey. Book review: *Do wave functions jump? Perspectives of the work of GianCarlo Ghirardi* edited by Valia Allori, Angelo Bassi, Detlef Dürr, and Nino Zanghi, Cham, CH, Springer Nature Switzerland, 2021, xv + 436 pp., £87.50 (hardcover), ISBN 978-3-0304-6776-0/

ISBN 978-3-0304-6777-7 (e-book). Scope: article collection. Level: early career researcher, specialist, scientist. *Contemporary Physics*, 62(2):105–106, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Esposito:2021:BRN

[4155] Salvatore Esposito. Book review: *The neutrino story: one tiny particle's grand role in the cosmos* by Rabindra N. Mohapatra, Cham, Switzerland, Springer, 2021, xvi+222 pp., £17.99 (E-Book), ISBN 978-3-0305-1846-2. Scope: monograph, general interest. Level: non-specialists, undergraduate, specialist, scientist. *Contemporary Physics*, 62(2):106–107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRE

[4156] A. H. Harker. Book review: *The equations of materials* by Brian Cantor, Oxford, Oxford University Press, 2020, 19 + 307pp., £59.99 (hardback), £29.99 (paperback), ISBN 978-0-19-885187-5 (hbk)/978-0-19-885188-2 (pbk). Scope: general interest. Level: pre-university, undergraduate. *Contemporary Physics*, 62(2):107, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

MacKay:2021:BRC

[4157] Robert S. MacKay. Book review: *The cosmic microwave background*, 2nd edition, by Ruth Durrer, Cambridge, UK, Cambridge University Press, 2021, 510 pp., £47.61 (hardback), ISBN 978-1-107-13522-2. Scope: textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):107–108, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRPa

[4158] David J. Miller. Book review: *Particle detectors: fundamentals and applications* by Hermann Kolanoski and Norbert Wermes, New York, Oxford University Press, 2020, 944 pp., $100 (Hardback), ISBN 978-0-19-885836-2. Scope: monograph. Level: graduate. *Contemporary Physics*, 62(2):108–109, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRA

[4159] David J. Miller. Book review: *Advances in nuclear physics: structure and reactions* edited by R.K. Puri, J. Aichelin, S. Gautam and R. Kumar, Springer Nature, 2020, 273 pp., £129.99 (hardback), ISBN 978-981-1590-61-0. Scope: conference proceedings. Level: researcher. *Contempo-*

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Miller:2021:BRPb

[4160] David J. Miller. Book review: *The physics of the dark photon: a primer* by Marco Fabbrichesi, Emidio Gabrielli and Gaia Lanfranchi, Cham, Springer Nature, 2021, 78 pp., £44.99 (paperback), ISBN: 978-3-030-62518-4. Scope: review. Level: researcher. *Contemporary Physics*, 62 (2):110, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Miller:2021:BRC

[4161] David J. Miller. Book review: *Classical mechanics: a professor–student collaboration* edited by Mario Campanelli, Bristol, IOP Science, 2020, 376 pp., £99.00 (hardback), ISBN: 978-0-7503-2688-9. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 62(2):110–111, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRS

[4162] A. H. Harker. Book review: *Semiconductor physics: principles, theory and nanoscale* by S. Tiwari, Oxford, Oxford University Press, 2020, 19 + 803 pp., £65.00 (hardback), ISBN 978-0-19-875986-7. Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(2): 111–112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Halttunen:2021:BRA

[4163] Krista Halttunen. Book review: *The advent of relativity* by Voldemar Smilga, Singapore, World Scientific, 2021, 352 pp., £60.00 (hardback), ISBN: 978-981-12-3114-8. Scope: monograph. Level: pre-university. *Contemporary Physics*, 62(2):112, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Osborn:2021:BRQ

[4164] H. Osborn. Book review: *From quarks to pions: chiral symmetry and confinement* by M. Creutz, World Scientific, 2018, 216 pp., £75 (hardback), ISBN: 978-981-322-923-5. Scope: monograph. Level: postgraduate. *Contemporary Physics*, 62(2):113, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lakshminarayanan:2021:BRH

[4165] Vasudevan Lakshminarayanan. Book review: *The handbook of medical image perception and techniques*, 2nd edition, by E. Samei and E.

A. Krupinski, Cambridge, UK, Cambridge University Press, 2018, 522 pp., £120.00 (hardback), ISBN: 978-1-107-19488-5. Scope: handbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist. *Contemporary Physics*, 62(2):113–114, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRA

[4166] Stefano Scali. Book review: *Advanced quantum condensed matter physics: one-body, many-body, and topological perspectives* by Michael El-Batanouny, Cambridge, Cambridge University Press, 2020, £69.99 (hardback), ISBN: 978-1-108-48084-0. Scope: reference, textbook. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):114–115, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Scali:2021:BRG

[4167] Stefano Scali. Book review: *Group theory for physicists*, 2nd edition, by Zhong-Qi Ma, Hackensack, NJ, World Scientific, 2019, 656 pp., £115 (paperback), ISBN: 978-981-327-796-0. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 62(2):115–116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRR

[4168] Chih-Yueh Wang. Book review: *Relativistic fluid dynamics in and out of equilibrium: and applications to relativistic nuclear collisions* by Paul Romatschke and Ulrike Romatschke, Cambridge, Cambridge University Press, 2019, 204 pp., US$140.00 (hardcover), ISBN-13: 978-1-108-48368-1. Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 62(2):116, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRI

[4169] Andrew Resnick. Book review: *An introduction to fluorescence correlation spectroscopy* by Thorsten Wohland, Radek Machán, and Sudipta Maiti, Bristol, IOP Publishing Ltd, 2020, 300 pages, $190.00, ISBN: 978-0-7503-2078-8. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62(2):117, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRS

[4170] Andrew Resnick. Book review: *Stigmatic optics* by Rafael G. González-Acuña and Héctor A. Chaparro-Romo, Bristol, IOP Publishing Ltd, 2020, 308 pages, $190.00, ISBN-13: 978-0-7503-3461-7, ISBN-10: 0-7503-3461-4. Scope: textbook, handbook. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 62 (2):117–118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shorter:2021:BRP

[4171] R. S. Shorter. Book review: *The physics of the Manhattan Project* by Bruce Cameron Reed, New York, Springer, Nature Switzerland AG, 2021, 256 pp., £43.99 (e-book), ISBN: 978-3-030-61372-3. Scope: general interest, textbook. Level: general readership, undergraduate, teacher. *Contemporary Physics*, 62(2):118, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRE

[4172] Manuel Vogel. Book review: *Electrons in motion: attosecond physics explores fastest dynamics* by F. Krausz, Singapore, World Scientific, 2019, 536 pp., $175 (hardback), ISBN: 978-981-12-0186-8. Scope: article collection. Level: researcher, specialist. *Contemporary Physics*, 62(2):119, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gershon:2021:BRP

[4173] Tim Gershon. Book review: *Particle–antiparticle asymmetry in the meson system* by Hiroaki Aihara, IOP Science, 2020, $190.00 (hardback), ISBN: 978-0-7503-3649-9, $159.00 (ebook), ISBN: 978-0-7503-3651-2. Scope: reference material, appropriate for undergraduate level. *Contemporary Physics*, 62(2):119–120, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shotter:2021:BRE

[4174] A. C. Shotter. Book review: *Essentials of nucleosynthesis and theoretical nuclear astrophysics* by Thomas Rauscher, Bristol, IOP Science, 2020, $190.00 (Hardback), 397 pp., ISBN 978-0-7503-1150-2. Level: advanced undergraduate, postgraduate, early career researcher, researcher. Scope: reference. *Contemporary Physics*, 62(2):120–121, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Volpe:2021:BRS

[4175] Giovanni Volpe. Book review: *Statistical mechanics: entropy, order parameters, and complexity* 2nd edition, by James P. Sethna, Oxford, Oxford University Press, 2021, 496pp., £58.99 (paperback), ISBN 978-0-19-886524-7. Scope: textbook. Level: undergraduate, postgraduate, advanced undergraduate. *Contemporary Physics*, 62(2):121–122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRR

[4176] Dr. Manuel Vogel. Book review: *Relativity and cosmology: volume 5 of modern classical physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, 416 pp., £48 (softcover), ISBN: 978-0-691-20739-1. Scope: textbook. Level: advanced undergraduates. *Contemporary Physics*, 62(2):122, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRI

[4177] Peter J. Bussey. Book review: *Introduction to the standard model and beyond: quantum field theory, symmetries and phenomenology* by Stuart Raby, Cambridge, Cambridge University Press, 2021, xvi+619 pp., £60 (hardback), ISBN 978-1-108-49,419-9. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(2):123, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRC

[4178] Mogadalai P. Gururajan. Book review: *Continuum mechanics of solids* by Lallit Anand and Sanjay Govindjee, Oxford, UK, Oxford University Press, 2020, 736 pp., £65.00 (hardback), ISBN: 978-0-19-886472-1. Scope: textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, engineers. *Contemporary Physics*, 62(2): 123–124, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Barnes:2021:PCE

[4179] Samuel J. K. Barnes and Aneta Stefanovska. Physics of cellular energy metabolism. *Contemporary Physics*, 62(3):125–143, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Kumar:2021:SCI

[4180] Sunil Kumar, Manoj Kumar, and Amarjeet Singh. Synthesis and characterization of iron oxide nanoparticles (Fe_2O_3, Fe_3O_4): a brief review.

Contemporary Physics, 62(3):144–164, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Palti:2021:SST

[4181] Eran Palti. The swampland and string theory. *Contemporary Physics*, 62(3):165–179, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRG

[4182] Peter J. Bussey. Book review: *General relativity: the essentials* by Carlo Rovelli, Cambridge, Cambridge University Press, 2021, x+170 pp., £14.99 (paperback), ISBN 978-1-009-01369-7. Scope: textbook. Level: postgraduate. *Contemporary Physics*, 62(3):180, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2021:BRO

[4183] Peter J. Dobson. Book review: *Optical materials*, 2nd edition by Kelly Potter and Joseph Simmons, USA, Elsevier, 2020, 530 pp., £125-£155 (paperback) (E-Book), ISBN: 978-0-12-818642-8. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(3): 180–181, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSa

[4184] Peter J. Bussey. Book review: *Statistical Physics*, vol. 1 of *Modern Classical Physics* by Kip S. Thorne and Roger D. Blandford, Princeton, Princeton University Press, 2021, xxii+384 pp., £40 (paperback), ISBN 978-0-691-20612-7. Level: advanced undergraduate, postgraduate. scope: textbook. *Contemporary Physics*, 62(3):181–182, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wang:2021:BRC

[4185] Chih-Yueh Wang. Book review: *Computational statistical physics* by Lucas Böttcher and Hans J. Herrmann, Cambridge, UK, Cambridge University Press, 2021, 257 pp., US$59.99 (E-book), ISBN 978-1-108-84142-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early-career researcher, researcher, scientist, engineers. *Contemporary Physics*, 62(3):182–183, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Mason:2021:BRS

[4186] Nigel John Mason. Book review: *Space science and public engagement: 21st century perspectives and opportunities* by Amy

Kaminski, Elsevier, 2021, 298 pp., $69.95 (E-Book), ISBN: 978-0-12-817390-9, https://www.elsevier.com/books/space-science-and-public-engagement/kaminski/978-0-12-817390-9. Scope: review. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 62(3):183–184, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2021:BRE

[4187] M. Jamil. Book review: *Exploring classical mechanics: a collection of 350+ solved problems for students, lecturers, and researchers*, 2nd revised and enlarged English edition by G. L. Kotkin and V. G. Serbo, Oxford, UK, Oxford University Press, 2020, 400 pp., £29.99 (E-Book), ISBN: 978-0-19-885379-4. Scope: monograph, handbook, guide. Level: undergraduate, advanced undergraduate, early career researcher, researcher. *Contemporary Physics*, 62(3):184–185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2021:BRT

[4188] Miguel A. F. Sanjuán. Book review: *Thermodynamics and statistical mechanics. An introduction for physicists and engineers* by Samya Zain, Bristol, IOP Publishing, 2021, 372 pp., £99 (hardback), ISBN: 978-0-7503-3083-1, 978-0-7503-3081-7. Scope: textbook. Level: undergraduate, advanced undergraduate, teacher, engineers. *Contemporary Physics*, 62 (3):185, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Resnick:2021:BRT

[4189] Andrew Resnick. Book review: *Thermodynamics: principles characterising physical and chemical processes*, 5th edition by Jurgen Honig, London, Elsevier, 2020, $190 (E-Book), ISBN: 978-0-12-821940-9. Scope: textbook. Level: advanced undergraduate, postgraduate, early career researcher, scientist. *Contemporary Physics*, 62(3):185–186, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRE

[4190] Mogadalai P. Gururajan. Book review: *Elasticity & fluid dynamics*, 1st edition by Kip S. Thorne and Roger D. Blandford, Series: Volume 3 of Modern Classical Physics, Princeton, USA, Princeton University Press, 2021, 450 pp. (565-1014), 50 USD (paperback), ISBN 978-0-691-20734-6. Scope: reference, textbook. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, scientist, engineers.

Contemporary Physics, 62(3):186–187, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:BRSb

[4191] Peter J. Bussey. Book review: *Seven fundamental concepts in space-time physics* by Vesselin Petkov, Cham, CH, Springer International Publishing, 2021, xix + 81 pp., £50 (paperback), ISBN: 978-3-030-75638-3. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(3): 187–188, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Xie:2021:MTP

[4192] Songbo Xie and J. H. Eberly. Managing the three-party entanglement challenge. *Contemporary Physics*, 62(4):189–198, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jiang:2021:PMB

[4193] Xiangqian Jiang and Andrew Henning. Precision metrology: from bulk optics towards metasurface optics. *Contemporary Physics*, 62(4):199–216, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Rider:2021:SNL

[4194] M. S. Rider and W. L. Barnes. Something from nothing: linking molecules with virtual light. *Contemporary Physics*, 62(4):217–232, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2021:RP

[4195] Peter J. Bussey. Resolving a paradox. *Contemporary Physics*, 62(4): 233–235, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Howard:2021:BRQ

[4196] Eric Howard. Book review: *The quantum universe: essays on quantum mechanics, quantum cosmology, and physics in general* by James B. Hartle, Singapore, World Scientific, 2021, 624 pp., £110.00 (E-Book), ISBN: 978-981-12-1634-3. Scope: edited book. Level: early career researcher. *Contemporary Physics*, 62(4):236, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Probert:2021:BRM

[4197] Matt Probert. Book review: *Machine learning with neural networks: an introduction for scientists and engineers* by Bernhard Mehlig, Cam-

bridge, UK, Cambridge University Press, 2021, 249 pp., £39.99 (hardback), ISBN: 978-1-108-49493-9. Scope: monograph, textbook. Level: postgraduate, researcher. *Contemporary Physics*, 62(4):236–237, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Gururajan:2021:BRPb

[4198] Mogadalai P. Gururajan. Book review: *Physics of elasticity and crystal defects* Oxford series on materials modelling, by Adrian P. Sutton, Oxford, Oxford University Press, 2020, 288 pp., £45.00 (hardback), ISBN: 978-0-19-886078-5. Scope: monograph, textbook. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4):237–238, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2021:BRI

[4199] Mohit Sharma. Book review: *Introduction to quantum nanotechnology: a problem focused approach* by Duncan G. Steel, Oxford, UK, Oxford University Press, 2021, 370 pp., £65.00 (hardback), ISBN 978-0-19-289507-3. Scope: reference, review. Level: postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 62(4): 238–239, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRC

[4200] Nikolaos E. Myridis. Book review: *Cosmology's century: an inside history of our modern understanding of the universe* Physics & Astronomy, by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 440 pp., $28.00 (hardback), ISBN (e-book) 978-0-691-20166-5. Scope: monograph. Level: non-specialists, undergraduate, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4):239–240, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2021:BRH

[4201] Jack Reid. Book review: *A handbook of mathematical methods and problem-solving tools for introductory physics* (second edition) by Joshua F. Whitney, Heather M. Whitney, IOP Science, Bristol, Institute of Physics Publishing, 2021, $120.00 (hardback), $90.00 (e-book), E-Book (https://store.ioppublishing.org/page/detail/A-Handbook-of-Mathematical-Methods-and-ProblemSolving-Tools-for-Introductory-Physics-Second-Edition/?K=9780750333993), ISBN 978-0-7503-3399-3. Scope: handbook. Level: undergraduate. *Contemporary Physics*, 62(4):240–241,

2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2021:BRU

[4202] Michael Belsley. Book review: *Ultrafast lasers and optics for experimentalists* by James David Pickering, Bristol, UK, IOP Science, 2021, 157 pp., ISBN 978-0-7503-3659-8. Scope: handbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 62(4):241–242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRPb

[4203] A. H. Harker. Book review: *Principles of materials characterization and metrology* by Kannan M. Krishnan, Oxford, UK, Oxford University Press, 2021, 20 + 849 pp., ISBN 978-0-19-883025-2 (hbk), ISBN 978-0-19-883026-9 (pbk). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2021:BRN

[4204] A. H. Harker. Book review: *Nuclear materials science*, 2nd edition by Karl Whittle, IOP Publishing Ltd, 2020, 218 pp., ISBN: 978-0-7503-2376-5 (ebook), ISBN: 978-0-7503-2374-1 (print). Scope: textbook. Level: undergraduate, early postgraduate. *Contemporary Physics*, 62(4):242–243, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Myridis:2021:BRP

[4205] Nikolaos E. Myridis. Book review: *Principles of physical Cosmology* by P. J. E. Peebles, winner of the Nobel prize in Physics, Princeton, NJ, Princeton University Press, 2020, 774 pp., £62.00 (e-book), ISBN 978-0-691-20672-1. Princeton series in physics & astronomy. Scope: reference. Level: non-specialists, advanced undergraduate, postgraduate, researcher, teacher, specialist, scientist. *Contemporary Physics*, 62(4): 243–244, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Boyack:2021:BRE

[4206] Rufus Boyack. Book review: *Electrostatics of conducting cylinders and spheres* by John Lekner, Melville, NY, AIP Publishing, 2021, 240 pp., \$135 (paperback), https://doi.org/10.1063/9780735423350, ISBN: 978-0-7354-2332-9. Scope: monograph. Level: scientist. *Contemporary Physics*, 62(4):244–245, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2021:BRNb

[4207] Manuel Vogel. Book review: *Nuclear data — a primer* by David G. Jenkins and John L. Wood, Bristol, UK, IOP Publishing, 2021, 198 pp., USD 190 (hardcover), ISBN 978-0-7503-2672-8. Scope: textbook. Level: advanced undergraduates and above. *Contemporary Physics*, 62(4):245–246, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2021:BRR

[4208] Miguel A. F. Sanjuán. Book review: *A random walk in physics. Beyond black holes and time-travels* by Massimo Cencini, Andrea Puglisi, Davide Vergni, and Angelo Vulpiani, Springer Nature Switzerland AG, 2021, 36.39 EUR (hardback), 224 pp. ISBN 978-3-030-72530-3. Scope: general interest. Level: general readership, undergraduate, teacher. *Contemporary Physics*, 62(4):246–247, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Deppisch:2021:BRF

[4209] Frank F. Deppisch. Book review: *Foundations of quantum cosmology* by Martin Bojowald, IOP Science, 2020, ISBN: 978-0-7503-2460-1 (E-Book). Scope: monograph. Level: physics graduate. *Contemporary Physics*, 62 (4):247, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2021:BRT

[4210] Stephen J. Blundell. Book review: *Theory of simple glasses: exact solutions in infinite dimensions* by Giorgio Parisi, Pierfrancesco Urbani and Francesco Zamponi, Cambridge University Press, 2020, 349 pages, £62.99 (hardcover), ISBN: 978-1-108-12049-4. Level: researcher. Scope: textbook. *Contemporary Physics*, 62(4):247–248, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Ashworth:2021:BRI

[4211] Stephen H. Ashworth. Book review: *The ideas of particle physics* by James Dodd and Ben Gripaios, Cambridge University Press, 2020, £34.99 (paperback, https://www.cambridge.org/gb/academic/subjects/physics/particle-physics-and-nuclear-physics/ideas-particle-physics-4th-edition?format=PB), ISBN 978-1-108-72740-2. Scope: review. Level: general readership, non-specialists, scientists. *Contemporary Physics*, 62(4):248–249, 2021. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Keller:2022:CQS

[4212] Matthias Keller. Cavity-QED with single trapped ions. *Contemporary Physics*, 63(1):1–14, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Chapman:2022:FLS

[4213] E. Chapman. First light: switching on stars at the dawn of time. *Contemporary Physics*, 63(1):15–33, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Milburn:2022:PLM

[4214] G. J. Milburn and Sahar Basiri-Esfahani. The physics of learning machines. *Contemporary Physics*, 63(1):34–60, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Vogel:2022:BRSa

[4215] Manuel Vogel. Book review: *Synchrotron radiation: sources and applications to the structural and electronic properties of materials* by D. Phil Woodruff, Cambridge, Cambridge University Press, 2021, 450 pp., £74.99 (hardback), ISBN: 978-1-316-99574-7. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(1):61, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sivakumar:2022:BRQ

[4216] Srinivasan Sivakumar. Book review: *Quantum information processing, quantum computing, and quantum error correction: an engineering approach*, 2nd edition by Ivan Djordjevic, Elsevier, 2021, 838 pp., $125.00 (paperback), ISBN 978-0-12-821987-4. Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 63(1):61–62, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2022:BRE

[4217] Aras Beauty, Laili Fitria Zulfa, and Iwan. Book review: *Entropy and free energy in structural biology: From thermodynamics to statistical mechanics to computer simulation* by Hagai Meirovitch, Boca Raton, CRC Press, 2020, 396 pp., £80.00 (hardback), ISBN 978-0-367-40692-9. Scope: textbook. Level: advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(1):62–63, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRQ

[4218] Jack Reid. Book review: *Quantum mechanics: introduction to mathematical formulation* by Martin Pieper, Wiesbaden, Springer International Publishing, 2021, xiii + 33 pp., £19.99 (paperback), ISBN 978-3-658-32645-6. Scope: guide. Level: general readership. *Contemporary Physics*, 63(1):63, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2022:BRT

[4219] Miguel A. F. Sanjuán. Book review: *Theory of the spread of epidemics and movement ecology of animals. An interdisciplinary approach using methodologies of physics and mathematics* by V. M. (Nitant) Kenkre and Luca Giuggioli, Cambridge, UK, Cambridge University Press, 2021, 330 pp., £120 (hardback), ISBN: 978-1-108-84140-5. Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(1):64, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shore:2022:BRF

[4220] K. Alan Shore. Book review: *Fundamental properties of semiconductor nanowires* edited by Fukata Naoki and Rurali Riccardo, Singapore, Springer International Publishing, 2021, 454 pp., £87.50 (E-Book), ISBN 978-981-15-9049-8. Scope: monograph. Level: postgraduate, early career researcher. *Contemporary Physics*, 63(1):64–65, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Bussey:2022:BRE

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Harker:2022:BRD

[4222] A. H. Harker. Book review: *Dimensional analysis: the great principle of similitude* by Jeffrey H. Williams, Bristol, UK, IOP Publishing Ltd, 2021, 20 + 223 pp., £120 (hardback), ISBN 978-0-7503-3653-6; £99 (e-book), ISBN 978-0-7503-3655-0. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(1):66–67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4223] Jack Reid. Book review: *The ABCs of High-Pressure Science* by Sergei M. Stishov, London, World Scientific Publishing, 2021, £40.00 (hardback), ISBN: 978-1-78634-955-2. Scope: reference. Level: general readership. *Contemporary Physics*, 63(1):67, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4224] Nikolaos E. Myridis. Book review: *Quantitative atomic-resolution electron microscopy* by Annick de Backer, Jarmo Fatermans, Arnold A. den Dekker and Sandra van Aert, vol. 217 of Advances in Imaging & Electron Physics, edited by Martin Hÿtch and Peter W. Hawkes, Elsevier, 2021, 294 pp., EUR139.13 (e-book), ISBN 978-0-323-85093-3. Scope: article collection. Level: researcher, scientist. *Contemporary Physics*, 63 (1):67–69, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4225] Stephen H. Ashworth. Book review: *The science of learning physics* by José P. Mestre and Jennifer L. Docktor, Singapore, World Scientific, 2021, 212 pp., £50.00 (hardback), ISBN 978-981-12-2654-0. also available as softback and ebook. Level: teacher, specialist. Scope: review. *Contemporary Physics*, 63(1):69, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4226] Aline Ramires. Symmetry aspects of chiral superconductors. *Contemporary Physics*, 63(2):71–86, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4231] Thomas J. Bridges. Book review: *Mechanics of fluid deformations in rigid body rotations and plane channel F* by Oleg V. Troshkin, Singapore, World Scientific, 2021, 284 pp., £85 (hardback), ISBN 978-981-1230-51-6. Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 63(2):156, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4232] Michael Belsley. Book review: *Virtual and real labs for introductory physics II: optics, modern physics, and electromagnetism* by Daniel Erenso, Bristol, UK, IOP Science, 2021, 380 pp., 90EUR (hardback), ISBN 978-0-7503-3713-7. Scope: textbook. Level: pre-university, undergraduate. *Contemporary Physics*, 63(2):156–157, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4233] Manuel Vogel. Book review: *String theory and the real world: the visible sector*, 2nd edition, by Gordon Kane, Bristol, UK, IOP Publishing, 2021, 175 pp., \$50 (hardback); \$40 (ebook), ISBN: 978-0-7503-3581-2. Scope: monograph. Level: general readership. *Contemporary Physics*, 63(2): 157–158, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4234] Andrew Resnick. Book review: *Gravity, magnetic and electromagnetic gradiometry: strategic technologies in the 21st century*, 2nd edition, by Alexey V. Veryaskin, Bristol, IOP Publishing Ltd, 2021, 175 pp., \$125.00 (hardcover), ISBN-13: 978-0-7503-3801-1, ISBN-10: 0-7503-3801-6. Scope: monograph. Level: advanced undergraduate student, graduate student, researcher. *Contemporary Physics*, 63(2):158–

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[4238] Darryl Z. Seligman and Amaya Moro-Martín. Interstellar objects. *Contemporary Physics*, 63(3):200–232, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Beauty:2022:BRB

[4241] Aras Beauty and Afnan Taqiyarrahman. Book review: *The brain-bladder axis in tissue growth and remodelling* by Roustem N. Miftahof and Christian J. Cyron, Bristol, IOP Publishing, 2021, 175 pp., $190 (hardback), $159 (ebook), ISBN 978-0-7503-3567-6. Scope: monograph. Level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist, engineer. *Contemporary Physics*, 63(3):242–243, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Huda:2022:BRT

[4242] Erin Ficrah Huda and Suci Indah Putri. Book review: *Tailored functional oxide nanomaterials: from design to multi-purpose applications* edited by Chiara Maccato and Davide Barica, Weinheim, Wiley, 2022, 512 pp., $156.35 (hardback), ISBN 978-3-527-34759-9. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(3):243–244, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2022:BRC

[4243] Nicholas Zutt. Book review: *Cosmic analogies: How natural systems emulate the universe* by Valerio Faraoni, London, World Scientific, 2022, 262 pp., USD 98.00 (E-Book), ISBN 978-1-80061-342-3. Scope: monograph. Level: undergraduate. *Contemporary Physics*, 63(3):244–245, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4244] Jack Reid. Book review: *The physics of sound waves: music, instruments, and sound equipment*, second edition, by Panos Photinos, Bristol, IOP Science, 2021, 269 pp., $50.00 (hardback), $40.00 (e-book), ISBN: 978-0-7503-3539-3. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(3):245, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4245] S. Schiller. Precision spectroscopy of molecular hydrogen ions: an introduction. *Contemporary Physics*, 63(4):247–279, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Esposito:2022:BRQ

[4248] Salvatore Esposito. Book review: *The quantum internet — the second quantum revolution* by Peter P. Rohde, Cambridge, Cambridge University Press, 2020, 344+xviii pp., £49.99 (hardback), ISBN: 978-1-108-49145-7. Scope: monograph. Level: postgraduate, researcher, specialist, engineers. *Contemporary Physics*, 63(4):328, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Reid:2022:BRT

[4249] Jack Reid. Book review: *Thermodynamics of complex systems: principles and applications* by Vladimir N. Pokrovskii, London, IOP Science, 2020, 321 pp., $190.00 (hardback), ISBN 978-0-7503-3449-5. Scope: textbook. Level: undergraduate. *Contemporary Physics*, 63(4):329, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Humaira:2022:BRF

[4250] Humaira and Erin Ficrah Huda. Book review: *Flexible supercapacitors: materials and applications* edited by Guozhen Shen, Zheng Lou and Di Chen, Hoboken, Wiley, 2022, 331 pp., $195.00 (hardback), ISBN 978-1-119-50616-4. Scope: textbook. Level: undergraduate, advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(4):329–330, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Falcone:2022:BRP

[4251] Francisco Falcone. Book review: *Printed and flexible sensor technology* by Subhas Mukhopadhyay and Anindya Nag, Bristol, IOP Publishing, 2021, 300 pp., $190.00 (hardback), ISBN: 978-0-7503-3439-6. Scope: reference. Level: postgraduate. *Contemporary Physics*, 63(4):330–331, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Hardi:2022:BRO

[4252] Anla Fet Hardi and Erin Ficrah Huda. Book review: *Organic solar cells: materials design, technology and commercialization* edited by Liming Ding, Weinheim, Wiley, 2022, 720 pp., $156.00 (hardback), ISBN 978-3-527-83366-5. Scope: textbook. Level: advanced undergraduate, postgraduate, researcher, scientist, engineer. *Contemporary Physics*, 63(4): 331–332, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2022:BRJ

[4253] Toni Shiroka. Book review: *A journey into reciprocal space: a crystallographer's perspective*, 2nd edition, by Anthony Michael Glazer, IOP Science, Bristol, 2021, 274 pp., 145 Euro, ISBN: 978-0-7503-3875-2 (Hardback). Scope: Textbook. Level: Undergraduate, advanced Undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 63(4):332–333, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Sanjuan:2022:BRS

[4255] Miguel A. F. Sanjuán. Book review: *Set theory and its applications in physics and computing* by Yair Shapira, Singapore, World Scientific, 2022, 480 pp., £100 (hardback), ISBN: 978-981-12-6177-0. Scope: monograph. Level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 63(4): 333–334, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2022:BRD

[4256] Nicholas Zutt. Book review: *Discovering the nature of light: the science and the story* by Norval Fortson, Seattle, USA, University of Washington, 2022, 220 pp., 68 USD (hardback), ISBN: 978-981-12-4959-4. Scope: general interest. Level: general readership. *Contemporary Physics*, 63(4): 334–335, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2022:BRE

[4257] A. H. Harker. Book review: *Energy materials* by Aliaksandr S. Bandarenka, Abingdon, Routledge Taylor & Francis Group, 2022, xv + 236 pp., £74.99 (e-book), ISBN: 978-0-367-45736-5. Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher. *Contemporary Physics*, 63(4):335–336, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Wandi:2022:BRC

[4258] Wandi Wandi and Fani Mardianti. Book review: *Cartoon physics: a graphic novel guide to solving physics problems* by Scott Calvin and Kirin Emlet Furst, Boca Raton, CRC Press, 2022, 273 pp., £31.99 (paperback), ISBN 978-1-138-59878-2. Scope: general interest. Level: general readership, undergraduate. *Contemporary Physics*, 63(4):336–337, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2022:BRP

[4259] A. H. Harker. Book review: *The physics of phonons*, 2nd edition, by Gyaneshwar P. Srivastava, Boca Raton, FL/Abingdon, UK, CRC Press, 2023, xxi+434 pp., £180 (hardback), ISBN 978-0-367-68526-3. Scope: monograph. Level: advanced undergraduate, graduate, early stage researcher. *Contemporary Physics*, 63(4):337, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sharma:2022:BRQ

[4260] Mohit Sharma. Book review: *Quantum transport in nanostructures and molecules: an introduction to molecular electronics* by Colin John Lambert, Bristol, IOP Publishing, 2021, 445 pp., $190 (hardback), $159 (e-book), ISBN: 978-0-7503-3639-0. Scope: review. Level: researcher. *Contemporary Physics*, 63(4):337–339, 2022. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4261] David J. E. Marsh. Axions for amateurs. *Contemporary Physics*, 64 (1):1–18, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Perryman:2023:SA

[4264] Michael Perryman. Space astrometry. *Contemporary Physics*, 64(1): 65–81, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2023:BRA

[4265] Toni Shiroka. Book review: *Application-driven quantum and statistical physics: a short course for future scientists and engineers, Volume 3: Transitions* by Jean-Michel Gillet, London, World Scientific, 2020, £80 (E-Book), ISBN: 978-1-78634-788-6. Scope: textbook. level: undergraduate, advanced undergraduate, early career researcher, researcher, Bachelor and Master's level engineering and physics students. *Contemporary Physics*, 64(1):82–83, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Shiroka:2023:BRF

[4266] Toni Shiroka. Book review: *Fundamentals and applications of magnetic materials* by Kannan M. Krishnan, Oxford, Oxford University Press, 2020, 795 pp., £40 (Paperback), ISBN: 978-0-19-886204-8. Scope: reference, handbook. level: undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, scientist, engineers. *Contemporary Physics*, 64(1):83–84, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Zutt:2023:BRO

[4267] Nicholas Zutt. Book review: *An object-oriented Python cookbook in quantum information theory and quantum computing* by M. S. Ramkarthik and Pranay Barkataki, Boca Raton, FL, CRC Press, Taylor & Francis Group, 2023, 220 pp., 104 USD (hardback), ISBN: 978-1-032-25607-8. Scope: handbook. level: postgraduate. *Contemporary Physics*, 64(1): 84–85, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Belsley:2023:BRI

[4268] Michael Belsley. Book review: *Invitation to quantum mechanics* by Daniel F. Styer, Singapore, World Scientific Publishing Co. Pte. Ltd,

2022, 289 pp., £30 (e-book), ISBN: 978-981-12-4792-7; £40 (paperback), ISBN: 978-981-12-4928-0; £80 (hardback), ISBN: 978-981-12-4790-3. Scope: textbook. level: undergraduate. *Contemporary Physics*, 64(1):85, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRC

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Harker:2023:BRO

[4270] A. H. Harker. Book review: *Offbeat physics: machines, meditations and misconceptions*, edited by P. I. C. Teixeira, Boca Raton, FL, and Abingdon, UK, CRC Press, 2022, xvi + 258 pp., £99.99 (hardback), ISBN: 978-1-032-02116-4; ISBN: 978-1-032-03393-8 (paperback); ISBN: 978-1-003-18710-3 (e-book). Scope: article collection. level: undergraduate. *Contemporary Physics*, 64(1):86–87, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BRE

[4271] Stephen J. Blundell. Book review: *Elementary Introduction to Quantum Geometry* by Jan Ambjorn, Abingdon, CRC Press, 2023, 292 pp., £74.99 (hardcover), ISBN: 978-1-032-33555-1. Scope: textbook. level: researcher. *Contemporary Physics*, 64(1):87, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Dobson:2023:BRT

[4272] Peter J. Dobson. Book review: *Transition metal oxides for electrochemical energy storage*, edited by Jagit Nanda and Veronica Augustyn, Chichester, UK, Wiley, 2022, 432 pp., £138.99 (e-Book), ISBN: 978-3-527-34493-2. Scope: review, reference, monograph. level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 64(1):87–88, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Blundell:2023:BRD

[4273] Stephen J. Blundell. Book review: *Density functional theory: a practical introduction*, 2nd edition, by David S. Sholl and Janice A. Steckel, Hoboken, NJ, Wiley, 2023, 204 pp., £91.25 (hardcover), ISBN 978-1-119-84086-2. Scope: textbook. level: graduate student, researcher. *Contemporary Physics*, 64(1):88, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRS

[4274] A. H. Harker. Book review: *So simple a beginning: how four physical principles shape our living world*, by Raghuveer Parthasarathy, Princeton, NJ, USA and Woodstock, Oxfordshire, UK, Princeton University Press, 2022, x + 326 pp., £30 (hardback), ISBN: 978-0-691-20040-8; £30 (e-book), ISBN: 978-0-691-23161-7. Scope: general interest. level: general reader. *Contemporary Physics*, 64(1):88–89, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Beauty:2023:BRL

[4275] Aras Beauty and Bimo Bramantio. Book review: *Life in the universe*, 5th edition, by Jeffrey Bennett, Seth Shostak, Nicholas Schneider and Meredith MacGregor, Princeton, Princeton University Press, 2022, 544 pp., £84.00 (e-book), ISBN: 978-0-691-24178-4. Scope: review. level: general readership, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 64(1):89–90, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Sanjuxen:2023:BRW

[4276] Miguel A. F. Sanjuán. Book review: *When things grow many. Complexity, universality and emergence in nature*, by L. S. Schulman, Oxford, UK, Oxford University Press, 2022, 304 pp., £45 (hardback), ISBN: 978-0-19-886188-1. Scope: monograph. level: advanced undergraduate, postgraduate, early career researcher, researcher, specialist, scientist. *Contemporary Physics*, 64(1):90–91, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4277] Oliver Buchmueller, John Ellis, and Ulrich Schneider. Large-scale atom interferometry for fundamental physics. *Contemporary Physics*, 64(2): 93–110, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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[4278] S. J. Clark and Z. Hawkhead. Non-collinear spin in electronic structure calculations. *Contemporary Physics*, 64(2):111–126, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Lancaster:2023:QSL

[4279] Tom Lancaster. Quantum spin liquids. *Contemporary Physics*, 64(2): 127–146, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Pedernales:2023:OFS

[4280] Julen S. Pedernales and Martin B. Plenio. On the origin of force sensitivity in tests of quantum gravity with delocalised mechanical systems. *Contemporary Physics*, 64(2):147–163, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Harker:2023:BRI

[4281] A. H. Harker. Book review: *Introduction to the mathematical physics of nonlinear waves*, 2nd edition, by Minoru Fujimoto, Bristol, UK, IOP Publishing, 2021, xv + 165 pp., £75.00 (hardback), ISBN: 978-0-7503-3757-1 (hbk); 978-0-7503-3760-1 (myPrint); 978-0-7503-3759-5 (ebook); 978-0-7503-3758-8 (mobi). Scope: textbook. level: advanced undergraduate, graduate. *Contemporary Physics*, 64(2):164, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Peters:2023:BRS

[4282] Thomas Peters. Book review: *Statistical and thermal physics: with computer applications*, 2nd edition by Harvey Gould and Jan Tobochnik, Princeton and Oxford, Princeton University Press, 2021, 528 pp., £75.00 (hardback), ISBN 978-0-691-20189-4. Scope: text book. level: undergraduate. *Contemporary Physics*, 64(2):164–165, 2023. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

Jamil:2023:BRH

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