

# A Complete Bibliography of Publications in *Contemporary Physics*

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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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- [2350] Dr. P. J. Bussey. *Quantum Leap: From Dirac and Feynman, Across the Universe to Human Body and Mind*, by V. Ivancevic and T. Ivancevic, Scope: monograph collection. Level: graduate student and professional research worker. *Contemporary Physics*, 51(2):185–186, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2351] Professor Peter V. E. McClintock. *Chaos and Coarse Graining in Statistical Mechanics*, by P. Castiglione, M. Falcioni, A. Lesne and A. Vulpiani, Scope: monograph. Level: professional physicists, researchers and Ph.D. students. *Contemporary Physics*, 51(2):186–187, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2352] Dr. Tim Evans. *Dynamical Processes on Complex Networks*, by A. Barrat, M. Barthélemy and A. Vespignani, Scope: textbook. Level: graduate students in any scientific disciplines. *Contemporary Physics*, 51(2):187–188, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2354] Professor Peter V. E. McClintock. *Missing Data in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity Analysis*, by M. J. Daniels and J. W. Hogan. Scope: research monograph. Level: professional statisticians and Ph.D. students. *Contemporary Physics*, 51(2):188–189, 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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- [2365] Professor Chris Linton. *A First Course in Continuum Mechanics*, by O. Gonzalez and A. Stuart, Scope: textbook. Level: graduate and advanced undergraduate. *Contemporary Physics*, 51(3):277, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2366] Professor Peter R. Hobson. *Electromagnetic Interactions and Hadronic Structure*, edited by F. Close, S. Donnachie and G. Shore, Scope: reference. Level: graduate students and researchers in the field of particle physics. *Contemporary Physics*, 51(3):277–278, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [2368] Professor Stig Stenholm. *A Journey through Statistical Physics. Selecta of Jürg Fröhlich*, edited by G. Felder, G. M. Graf and K. Hepp, Scope: monograph. Level: research. *Contemporary Physics*, 51(3):279–280, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2369] Professor Stig Stenholm. *Quantum Field Theory of Non-equilibrium States*, by J. Rammer, Scope: monograph. Level: graduate research. *Contemporary Physics*, 51(3):280, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2370] Professor Stig Stenholm. *Hilbert Space Operators in Quantum Physics*, 2nd edition, by J. Blank, P. Exner and M. Havlicek, Scope: textbook. Level: graduate. *Contemporary Physics*, 51(3):281, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2371] Professor David Matravers. *Entangled World — The Fascination of Quantum Information and Computation*, edited by J. Audretsch (translator R. Ehrlich), Scope: popular science. Level: undergraduate with many parts for a general reader. *Contemporary Physics*, 51(3):281–282, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2372] Professor D. G. C. Jones. *Cambridge Illustrated Handbook of Optoelectronics and Photonics*, by S. Kasap, H. Ruda and Y. Boucher, Scope: comprehensive reference. Level: undergraduate and above. *Contemporary Physics*, 51(3):282–283, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [2373] Dr. Manuel Vogel. *An Introduction to the Theory of Numbers*, 6th edition, by G. H. Hardy and E. M. Wright, Scope: textbook. Level: advanced undergraduate and above. *Contemporary Physics*, 51(3):283, 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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- [2375] Professor S. J. Blundell. *Quantum Theory of the Electron Liquid*, by G. F. Giuliani and G. Vignale, Scope: textbook. Level: graduate. *Contemporary Physics*, 51(3):284–285, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2376] Professor K. Alan Shore. *Monsoon Dynamics*, edited by J. Lighthill and R. Pearce, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(3):285, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2377] Professor K. Alan Shore. *Introduction to Nanoelectronics*, by V. V. Mitin, V. A. Kochelap and M. A. Stroscio, Scope: textbook. Level: undergraduate and graduate. *Contemporary Physics*, 51(3):285–286, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2378] Professor K. Alan Shore. *Progress in Nano-Electro-Optics VI*, Springer Series in Optical Sciences, edited by M. Ohtsu, Scope: monograph. Level: specialist. *Contemporary Physics*, 51(3):286–287, May/June 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2379] Peter V. E. McClintock. *Cosmic Perspectives*, edited by S. K. Biswas, D. C. V. Mallik and C. V. Vishveshwara, Scope: review. Level: general



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- [2380] Dr. J. Rogel-Salazar. *The Sun: A User's Manual*, By C. Vita-Finzi, Scope: popular science. Level: general public. *Contemporary Physics*, 51(3):287–288, 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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- [2389] Professor J. R. Sambles. *Aperiodic Structures in Condensed Matter*, by E. M. Barber, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 51(4):367–369, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2390] Professor Eric Sheldon. *Nuclear and Particle Physics: An Introduction*, 2nd edition, by B. R. Martin, Scope: textbook. Level: advanced undergraduate, postgraduate and specialist. *Contemporary Physics*, 51(4):369–370, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2391] Dr. J. Rogel-Salazar. *Classical Mechanics and Relativity*, by H. J. W. Müller-Kirsten, Scope: introductory. Level: undergraduate. *Contemporary Physics*, 51(4):370–371, 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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- [2394] Dr. A. H. Harker. *Physics and Applications of Negative Refractive Index Materials*, by S. Anantha Ramakrishna and T. M. Grzegorzczuk, Scope: introduction/reference. Level: newcomer to the field and above. *Contemporary Physics*, 51(4):373–374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2395] Assistant Professor Nikolaos E. Myridis. *Advanced Tomographic Methods in Materials Research and Engineering*, edited by J. Banhart, Scope: monograph. Level: undergraduate, postgraduate and postdoctoral workers. *Contemporary Physics*, 51(4):374, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

**Kolosov:2010:BBM**

- [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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- [2397] Professor Peter Kalmus. *Playing with Planets*, by Gerard 't Hooft, Scope: popular science. Level: general reader. *Contemporary Physics*, 51(4):375–376, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2398] Professor Stig Stenholm. *A Group-Theoretical Approach to Quantum Optics*, by A. B. Klimov and S. M. Chumakov, Scope: monograph. Level: advanced lecturer or researcher. *Contemporary Physics*, 51(4):376–377, 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).

**Jones:2010:QTI**

- [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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- [2404] Jonathan P. Williams. The astrophysical environment of the solar birthplace. *Contemporary Physics*, 51(5):381–396, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2408] Derry W. Jones. Magnetic mines, molecular models and the mind. *Contemporary Physics*, 51(5):433–437, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2409] Dr. Aneta Stefanovska. *The Biophysical Basis of Excitability*, by H. G. Ferreira and M. W. Marshall, Scope: research. Level: postgraduate. *Contemporary Physics*, 51(5):439–440, 2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

**Sambles:2010:MRS**

- [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).



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- [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).

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- [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. Jascheck, 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,



2010. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

**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).

**Pálffy: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. Kozryeff 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**

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- [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).

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- [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).



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

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [2548] Emeritus Professor Derry W. Jones. *On Fact and Fraud: Cautionary Tales from the Front Lines of Science*, by David Goodstein, Scope: twentieth century physics history and advice for scientists and administrators. Level: general reader. *Contemporary Physics*, 52(2):178–179, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2555] Michael Belsley. *Two-dimensional Optical Spectroscopy*, by Minhaeng Cho, Scope: monograph. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 52(3):249–250, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2557] Joseph Shamir. *Optical Methods of Measurement: Wholefield Techniques*, 2nd edn., by R. S. Sirohi, Scope: monograph and reference. Level: early career researcher and engineers. *Contemporary Physics*, 52(3):251, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2558] Tony Sudbery. *Quantum: Einstein, Bohr and the Great Debate About the Nature of Reality*, by Manjit Kumar, Scope: general interest. Level: general readership. *Contemporary Physics*, 52(3):251–254, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2559] Manuel Vogel. *Physics of the Sun: A First Course*, by D. J. Mullan, Scope: monograph. Level: undergraduates. *Contemporary Physics*, 52(3):254, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2560] Michael Belsley. *Statistical Mechanics: An Elementary Outline*, revised edition, by Lahiri Avijit, Scope: monograph. Level: undergraduate. *Contemporary Physics*, 52(3):254–255, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [2561] Jörg Bernhard Götte. *Intermediate Spectral Theory and Quantum Dynamics*, by C. R. de Oliveira, Scope: monograph. Level: undergraduate and postgraduate. *Contemporary Physics*, 52(3):255–256, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2563] Mark Fox. *Introduction to Nanophotonics*, Sergey V. Gaponenko, Scope: manual. Level: graduate students and researchers. *Contemporary Physics*, 52(3):257, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2565] Peter J. Bussey. *Kinematics: The Lost Origins of Einstein's Relativity*, by Alberto A. Martínez, Scope: biography and reference. Level: general readership, teacher, specialist. *Contemporary Physics*, 52(3):258, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2566] M. Jamil. *Nuclear Reactions for Astrophysics: Principles, Calculation and Applications of Low-Energy Reactions*, by Ian J. Thompson and Filomena M. Nunes, Scope: monograph. Level: graduate students and researchers. *Contemporary Physics*, 52(3):259, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2579] S. Sivakumar. *Quantum Mechanics: Concepts and Applications*, 2nd edn., by Nouredine Zettili, Scope: textbook. Level: undergraduates and advanced students. *Contemporary Physics*, 52(4):363, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2580] J. Rogel-Salazar. *Bose-Condensed Gases at Finite Temperatures*, by Allan Griffin, Tetsuro Nikuni and Eugene Zaremba, Scope: review. Level: graduate and researcher. *Contemporary Physics*, 52(4):364, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2581] J. Rogel-Salazar. *Everywhere and Everywhen: Adventures in Physics and Philosophy*, by Nick Huggett, Scope: reference. Level: popular science. *Contemporary Physics*, 52(4):364–365, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2621] R. Ellis. *An Introduction to the Theory of Stellar Structure and Evolution*, 2nd edn., by Dina Prialnik, Scope: monograph. Level: early career researcher, postgraduate, teacher. *Contemporary Physics*, 52(5):490, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2626] R. Ellis. *Stellar Populations: Planning for the Next Decade*, edited by G. Bruzual and S. Charlot. *Contemporary Physics*, 52(5):493, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2647] Nikolaos E. Myridis. *At the Leading Edge: The ATLAS and CMS LHC Experiments*, edited by Dan Green, Scope: reference. Level: physicists, graduates in particle physics, engineers. *Contemporary Physics*, 52(6):596–597, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2650] Ken Zetie. *Michael Faraday: A Very Short Introduction*, by Frank A. J. L. James, Scope: biography, general interest. Level: general readership, non-specialists, teacher. *Contemporary Physics*, 52(6):599, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2652] Alan Phelps. *Complex and Dusty Plasmas: From Laboratory to Space*, edited by Vladimir E. Fortov and Gregor E. Morfill, Scope: edited



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- [2655] Christopher Gerry. *Introduction to Quantum Physics and Relativity*, by Jacob Dunningham and Vlatko Vedral, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 52(6):603–604, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2658] P. J. Bussey. *Higher Speculations: Grand Theories and Failed Revolutions in Physics and Cosmology*, by Helge Kragh, Scope: general interest. Level: general reader. *Contemporary Physics*, 52(6):606, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [2660] Peter Hobson. *Optoelectronic Devices: Design, Modeling, and Simulation*, by Xun Li, Scope: monograph. Level: postgraduate, early career researcher, researcher, specialist, scientist and engineers. *Contemporary Physics*, 52(6):607–608, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2661] Stephen H. Ashworth. *Energy, the Subtle Concept*, by Jennifer Coopersmith, Scope: monograph. Level: general reader with some scientific background. *Contemporary Physics*, 52(6):608–609, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2662] P. J. Bussey. *Particle Physics Experiments at High Energy Colliders*, by John Hauptman, Scope: review. Level: postgraduate. *Contemporary Physics*, 52(6):609–610, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2663] Manuel Vogel. *Storm and Cloud Dynamics*, 2nd edn., by W. R. Cotton, G. H. Bryan and S. C. van den Heever, Scope: monograph. Level: advanced students and experts. *Contemporary Physics*, 52(6):610–611, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2664] Monica Pierri-Galvao. *The Dark Matter Problem*, by Robert H. Sanders, Scope: review. Level: advanced undergraduate. *Contemporary Physics*, 52(6):611, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2667] Bill Barnes. *Optical Properties of Solids*, 2nd edn, by Mark Fox, Scope: monograph. Level: undergraduate, postgraduate, early career researcher, researcher. *Contemporary Physics*, 52(6):612–613, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2668] Derry W. Jones. *Soap, Science and Flat-Screen TVs: A History of Liquid Crystals*, by David Dunmur and Tim Sluckin, Scope: history of science with biographies. Level: general reader. *Contemporary Physics*, 52(6):613–614, 2011. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2747] Mircea Dragoman. *Physics of the Universe*, by Mendel Sachs, Scope: review. Level: scientist. *Contemporary Physics*, 53(2):182, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2749] Nicholas Dimakis. *Computational Nanoscience: Applications for Molecules, Clusters, and Solids*, by Kálmán Varga and Joseph A. Driscoll, Scope: review. Level: advanced undergraduates and graduate students in computational physics, material science, and engineering. *Contemporary Physics*, 53(2):183–184, 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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- [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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- [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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- [2883] David L. Andrews. *Theory of Molecular Fluids Volume 2: Applications*, by Christopher G. Gray, Keith E. Gubbins, and Christopher G. Joslin, Scope: monograph. Level: postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 53(5):451–452, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2884] Nikolaos E. Myridis. *Science: Image in Action (The Science and Culture Series: Astrophysics)*, edited by Bertrand Zavidovique and Giosuè Lo Bosco, Scope: conference proceedings. Level: students, researchers and academics. *Contemporary Physics*, 53(5):452–453, 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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- [2898] Jeff Kuhn. *Solar and Stellar Variability: Impact on Earth and Planets*, IAU S264, by A. G. Kosovichev, A. H. Andrei and J-P Rozelot. Scope: conference proceedings. Level: postgraduate, researcher, specialist. *Contemporary Physics*, 53(6):500–501, 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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- [2901] P. T. Greenland. *Data Analysis for Physical Scientists Featuring Excel(R)*, 2nd edn., by Les Kirkup, Scope: textbook. Level: undergraduates, advanced undergraduates. *Contemporary Physics*, 53(6):503, 2012. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [2902] Peter V. E. McClintock. *Graphene: Carbon in Two Dimensions*, by Mikhail I. Katsnelson, Scope: monograph. Level: postgraduate students, researchers. *Contemporary Physics*, 53(6):503–504, 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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- [3044] B. Ishak. *Illustrating the Phaenomena: Celestial Cartography in Antiquity and the Middle Ages*, by E. Dekker, Scope: monograph. Level: specialists. *Contemporary Physics*, 54(2):129–130, 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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- [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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- [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).



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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).

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- [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).



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- [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, Kunihiro Yamaji and Takashi Yanagisawa, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 54(5):254, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [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).



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- [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).

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- [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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- [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).

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- [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).



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- [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).

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- [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).

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- [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).

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- [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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- [3123] William T. Coffey. *Path Integrals for Stochastic Processes: An Introduction*, by Horacio S. Wio, Scope: textbook. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 54(5):268, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3124] S. J. Blundell. *Field Theories of Condensed Matter Physics*, 2nd edn., by Eduardo Fradkin, Scope: monograph. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):268–269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [3125] H. Osborn. *An Introduction to Non-Perturbative Foundations of Quantum Field Theory*, by Franco Strocchi, Scope: monograph. Level: scientist. *Contemporary Physics*, 54(5):269, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3126] Peter Holland. *Gauge Theories of Gravitation: A Reader with Commentaries*, edited by Milutin Blagojević and Friedrich W. Hehl, Scope: edited book, reference, review. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):269–270, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3127] Matt Probert. *Atomistic Computer Simulations: A Practical Guide*, by V. Brázdová and D. R. Bowler, Scope: reference. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(5):270–271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3128] Dawn E. Leslie. *The Infinity Puzzle: The Personalities, Politics and Extraordinary Science Behind the Higgs Boson*, by Frank Close. Scope: general interest. Level: general readership, non-specialists, pre-university, undergraduate, postgraduate, advanced undergraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 54(5):271, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3129] Manuel Vogel. *Planetary Systems and the Origins of Life*, Cambridge Astrobiology (No. 3), edited by Ralph Pudritz, Paul Higgs and Jonathon Stone, Scope: edited book. Level: general readership. *Contemporary Physics*, 54(5):271–272, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3131] Derry W. Jones. *Crystallographic centenary celebration: the emergence of X-ray analysis*, Scope: general interest, monograph. Level: general reader, specialist. *Contemporary Physics*, 54(6):287–290, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3132] George Rowlands. *An Introduction to Stochastic Processes and Nonequilibrium Statistical Physics*, revised edition, Series on Advances in Statistical Mechanics: Volume 19, edited by Horacio S. Wio, Roberto R. Deza and Juan M. López, Scope: review. Level: scientist. *Contemporary Physics*, 54(6):291, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3133] Peter J. Bussey. *The Theory of the Quantum World: Proceedings of the 25th Solvay Conference on Physics*, edited by David Gross, Marc Henneaux and Alexander Sevrin, Scope: conference proceedings. Level: postgraduate. *Contemporary Physics*, 54(6):291–292, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3134] Manuel Vogel. *Earth: Evolution of a Habitable World*, 2nd edn., by J. I. Lunine, Scope: monograph. Level: general readership, non-specialists, pre-university. *Contemporary Physics*, 54(6):292, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3135] Sergey Krotov. *First Magnitude: A Book of the Bright Sky*, by James B. Kaler, Scope: edited book, general interest. Level: general readership, pre-university, undergraduate. *Contemporary Physics*, 54(6):293, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3136] T. J. Sumner. *Dark Matter, Neutrinos and Our Solar System*, Scope: monograph. Level: general readership, postgraduate, researcher. *Contemporary Physics*, 54(6):293–294, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3137] Francisco Caruso. *On Space and Time*, Scope: edited book. Level: general readership, non-specialists, pre-university, undergraduate, advanced



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- [3138] Gunter M. Schütz. *Exercises in Probability: A Guided Tour from Measure Theory to Random Processes, via Conditioning*, 2nd edn., by L. Chaumont and M. Yor, Scope: guide. Level: postgraduate, early career researcher, researcher. *Contemporary Physics*, 54(6):295–296, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3139] Salvatore Esposito. *Order and Disorder: Science Essentials for the Non-Scientist*, by Myron Kaufman, Scope: general interest. Level: general readership, teacher. *Contemporary Physics*, 54(6):296–297, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3140] Peter R. T. Munro. *Computational Photonics: An Introduction With MATLAB*, by Marek S. Wartak, Scope: textbook. Level: undergraduate, postgraduate, practising scientists and engineers. *Contemporary Physics*, 54(6):297, 2013. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3141] K. Alan Shore. *Silicon Photonics: Fundamentals and Devices*, by M. Jamal Deen and P. K. Basu, Scope: textbook. Level: postgraduate, early career researcher, researcher, teacher. *Contemporary Physics*, 54(6):297–298, 2013. 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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- [3199] Rob Appleby. *Oscillations and Waves: An Introduction*, by Richard Fitzpatrick, Scope: textbook. Level: undergraduate. *Contemporary Physics*, 55(2):141, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3203] Mario Bertolotti. *Cosmic Masers — From OH to Ho (IAU S287)*, edited by Roy S. Booth, Wouter H. T. Vlemmings and Elizabeth M. L. Humphreys. Scope: edited book. Level: specialist. *Contemporary Physics*, 55(2):144–145, 2014. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [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).

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- [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).

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- [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).



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- [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).

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- [3390] Ian G. Moss. Higgs boson cosmology. *Contemporary Physics*, 56(4):468–476, 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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- [3392] Nikolaos Kourkouvelis. *Spectroscopy for biosciences*, Scope: edited book. Level: specialist. *Contemporary Physics*, 56(4):480–482, 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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- [3394] B. Ishak. *Planetary rings: a post-equinox view*, Scope: monograph. Level: general readership, undergraduate and specialist. *Contemporary Physics*, 56(4):484–486, 2015. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3395] David L. Andrews. *Laser Spectroscopy 1: Basic Principles & Laser Spectroscopy 2: Experimental Techniques* (5th edition), Scope: handbook, monograph, reference, text book. Level: postgraduate, early career researcher, researcher, teacher, specialist, scientist, engineers. *Contemporary Physics*, 56(4):487–488, 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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- [3405] Derry W. Jones. *The Quantum Age: How the Physics of the Very Small Transformed Our Lives*, by Brian Clegg, Scope: general interest. Level: pre-university, undergraduate, general readership. *Contemporary Physics*, 56(4):503–504, 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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- [3408] Peter J. Dobson. *Nanoantenna Plasmon-Enhanced Spectroscopies for Biotechnological Applications*, edited by Marc Lamy de la Chapelle and Annemarie Pucci, Scope: monograph, reference. Level: advanced undergraduate, postgraduate, early career researcher, researcher, teacher, scientist, engineers. *Contemporary Physics*, 56(4):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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- [3411] Manuel Vogel. *Black Holes — A Student Text*, (3rd edition), by Derek Rain and Edwin Thomas, Scope: textbook. Level: postgraduate, advanced undergraduate. *Contemporary Physics*, 56(4):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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- [3413] Norman Riley. *Double-diffusive Convection*, by Timour Radko, Scope: monograph. Level: postgraduate. *Contemporary Physics*, 56(4):509–510, 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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- [3418] Alexander Jesacher and Monika Ritsch-Marte. Synthetic holography in microscopy: opportunities arising from advanced wavefront shaping. *Contemporary Physics*, 57(1):46–59, 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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- [3421] Ignazio Licata. Essay review: The architecture of time. *Principles of Discrete Time Mechanics*, by George Jaroszkiewicz, Cambridge Monographs on Mathematical Physics, New York, NY, Cambridge University Press, 2014, 366 + 14 pp., £85.00 (hardback), ISBN: 978-1-107-03429-7. Scope: monograph. Level: scientist. *Contemporary Physics*, 57(1):86–89, 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).

**McClintock:2016:ERO**

- [3423] Peter V. E. McClintock. Essay review: The origins of life on Earth. [*The Search for our Cosmic Ancestry*, by Chandra Wickramasinghe, Singapore, World Scientific, 2014, 216 pp. £25.00 (paperback), ISBN 978-981-4616-97-3, (hardcover) ISBN 978-981-4616-96-6, (e-book) 978-981-4616-99-7], Scope: review, monograph, general interest. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate, postgraduate, early career researcher. *Contemporary Physics*, 57(1):93–95, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



**McGlynn:2016:CSL**

- [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).

**Khare:2016:IFE**

- [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).

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- [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).

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- [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).

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- [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<sup>(R)</sup> 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).

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- [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).

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- [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).

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- [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).

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- [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).



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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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



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- [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).

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- [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).

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- [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).

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- [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).

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- [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).



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- [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**

- [3457] Peter V. E. McClintock. *Essentials of in vivo Biomedical Imaging*, edited by Simon R. Cherry, Ramsey D. Badawi and Jinyi Qi, Scope: edited book. Level: postgraduates, research scientists. *Contemporary Physics*, 57(1):144–145, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3458] Michael Belsley. *Experiments and Demonstrations in Physics Bar-Ilan Physics Laboratory* (second edition), Scope: guide or manual. Level: undergraduate. *Contemporary Physics*, 57(1):145–146, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

**Ishak:2016:WWN**

- [3459] B. Ishak. *Why we need nuclear power: the environmental case*, Michael H. Fox, New York, NY, Oxford University Press, 2014, 320 pp., £22.99 (Hardback), ISBN 978-0-199-34457-4. Scope: general interest. Level: general readership. *Contemporary Physics*, 57(1):146–147, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3460] Peter V. E. McClintock. *Superfluid States of Matter*, by Boris Egor Nikolay Svistunov, Egor Nikolay Babaev and Nikolay Prokof'ev, Scope: monograph. Level: postgraduates, research scientists. *Contemporary Physics*, 57(1):147, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3461] Eric Sheldon. *Relativity: The Special and the General Theory*, 100th Anniversary Edition, by Albert Einstein, Scope: general interest, edited book. Level: general readership, non-specialists, pre-university, undergraduate, advanced undergraduate, postgraduate, early career researcher, researcher, teacher, specialist, scientist. *Contemporary Physics*, 57(1):147–149, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).



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- [3462] Peter J. Bussey. *The beauty of physics: patterns, principles and perspectives*, Scope: general interest. Level: general reader. *Contemporary Physics*, 57(1):149, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3463] Hai-Jun Zhou. The rock–paper–scissors game. *Contemporary Physics*, 57(2):151–163, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3464] Clare Burrage and Edmund J. Copeland. Using atom interferometry to detect dark energy. *Contemporary Physics*, 57(2):164–176, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3465] Chris Quigg. Particle physics after the Higgs boson discovery: opportunities for the Large Hadron Collider. *Contemporary Physics*, 57(2):177–187, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [3466] Hiroya Nakao. Phase reduction approach to synchronisation of nonlinear oscillators. *Contemporary Physics*, 57(2):188–214, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

**Schippers:2016:PIS**

- [3467] Stefan Schippers, A. L. David Kilcoyne, Ronald A. Phaneuf, and Alfred Müller. Photoionisation of ions with synchrotron radiation: from ions in space to atoms in cages. *Contemporary Physics*, 57(2):215–229, 2016. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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- [4053] Andrew Resnick. Book review: *Parameter estimation and inverse problems*, 3rd edition. R. C. Aster, B. Borchers and C. H. Thurber, Cambridge, Elsevier, 2019, 404 pp., £76.95 (paperback), ISBN: 978-0-12-804651-7. Scope: monograph. Level: advanced undergraduate, postgraduate. *Contemporary Physics*, 61(1):51–52, 2020. CODEN CTPHAF. ISSN 0010-7514 (print), 1366-5812 (electronic).

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Ali:2020:BRL

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Clayton:2020:BRT

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- [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 Binétruy, 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).

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- [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).

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**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).

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- [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).

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- [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).

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- [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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- [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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- [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).



<b>Ali:2020:BRE</b>
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- [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).

<b>Resnick:2020:BRX</b>
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<b>Resnick:2020:BRW</b>
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- [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).

<b>Barber:2020:BRC</b>
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- [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).



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- [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**

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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).



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- [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).

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- [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).

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- [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).

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- [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).

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- [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).

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- [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 ( $\text{Fe}_2\text{O}_3$ ,  $\text{Fe}_3\text{O}_4$ ): a brief review.



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- [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).

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- [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).

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- [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).

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- [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.



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**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).

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- [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).

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- [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).

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- [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).

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

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- [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,



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**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**

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- [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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