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this has produced from Hodges an extraordinarily interesting and brilliant chapter, "On the Beach," analyzing the climate for homosexuals in Britain in the 1950s, and incidentally coming within an ace, as I interpret it, of suggesting that Turing's death was not in fact a suicide. (It was the time of the cold war, and the suggestion is that Turing may have been perceived as a poor security risk who still possessed important knowledge of British cryptanalytical secrets.) But this strong special orientation toward his subject has, in many respects, it seems to me, worked against Hodges, narrowing his view of Turing in human terms. If so, it is a pity, for it means that Turing's sexual nature has again, in death, exacted a toll from him.

Despite these comments, the book is an excellent one, and can be read with interest and gain by a wide audience.

DAVID SAYRE

Department of Mathematical Sciences
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book note

Microcomputer Quantum Mechanics

J. P. Killingbeck.

177 pp. Hilger (US Dist. Heyden Philadelphia), 1983. \$28.00

For students owning a microcomputer, even a low-cost model such as the Sinclair ZX-81 or a programmable calculator, this book offers an introduction to the application of microcomputers in a wide variety of physical calculations, with major emphasis on quantum mechanics. Some exposure to BASIC is desirable, but even the neophyte in programming will quickly learn the most important techniques, such as subroutines and branching, from the given examples.

Several numerical methods are discussed. Some quantum-mechanical applications are treated more extensively; for example, the Schrödinger equation or the Monte Carlo optimization. Especially the latter technique shows that a low-cost microcomputer can be an interesting tool in physics (see, for example, Per Bak's article "Doing physics with microcomputers," December, page 25).

This book contains a large number of exercises with solutions and should be of special interest to the undergraduate student who wishes to combine an introductory course in numerical methods or quantum mechanics with the acquisition of computer skills. The author is a reader in theoretical physics at the University of Hull (UK) and published *Techniques of Applied Quantum Mechanics* in 1975.

—AH

new books

Particles, Nuclei and High-Energy Physics

Fundamental Processes in Energetic Atomic Collisions. Proc. of the NATO Advanced Study Institute, September–October, 1982, Maratea, Italy, *NATO Advanced Science Institutes Series*. H. O. Lutz, J. S. Briggs, H. Kleinpoppen, eds. 675 pp. Plenum, New York, 1984. \$95.00

Absorption of Ionizing Radiation. D. W. Anderson. 428 pp. University Park, Baltimore, 1984. \$49.50 Text

Mesons, Isobars, Quarks and Nuclear Excitations. *Progress in Particle and Nuclear Physics 11*. Proc. of the International School of Nuclear Physics, Erice, April 1983. D. Wilkinson, ed. 635 pp. Pergamon, New York, 1984. \$102.00

Theory of Jets in Electron-Positron Annihilation. *Springer Tracts in Modern Physics 102*. G. Kramer. 140 pp. Springer-Verlag, New York, 1984. \$29.00

Quarks and Nuclear Structure. *Lecture Notes in Physics 197*. Proc. of the Third Klaus Erkelenz Symposium held at Bad Honnef, Germany, June 1983. K. Bleuler, ed. 414 pp. Springer-Verlag, New York, 1984. \$19.00

Proceedings of the Ninth Hawaii Topical Conference in Particle Physics (1983). R. J. Cence, E. Ma, eds. 390 pp. Hawaii U.P., Honolulu, Hawaii, 1984. \$30.00

Recent Theoretical (Computational) Developments in Atomic Collisions in Solids. Strasbourg, France, July 1981. Y. H. Ohtsuki, ed. 158 pp. World Scientific (US dist. Heyden, Philadelphia), 1984. \$28.00

Topical Symposium on High-Energy Physics. Tokyo, Japan, September, 1982. T. Eguchi, Y. Yamaguchi, eds. 391 pp. World Scientific (US dist. Heyden, Philadelphia), 1984. \$46.00

Concepts of Particle Physics, Vol. 1. K. Gottfried, V. F. Weisskopf. 189 pp. Oxford U.P., New York, 1984. \$22.50. Text

Antiproton-Proton Physics and the W Discovery. Proc. of the International Colloquium of the CNRS, Third Moriond Workshop, La Plagne, France, March 1983. J. Tran Thanh Van, ed. 670 pp. Editions Frontières, Gif-sur-Yvette, France 1984. \$65.00

Gluons and Heavy Flavours. Proc. of the Hadronic Session of the Eighteenth Rencontre de Moriond, La Plagne, France, Jan. 1983. J. Tran Thanh Van, ed. 710 pp. Editions Frontières, Gif-sur-Yvette, France, 1983. \$65.00

Beyond the Standard Model, Vol. 2. Proc. of the Leptonic Session of the 18th Rencontre de Moriond, La Plagne, France, March 1983. J. Tran Thanh Van, ed. 510 pp. Editions Frontières, Gif-sur-Yvette, France, 1983. \$55.00

The Neutron and Its Applications 1982. Conference Series Number 64. P. Schofield, ed. 500 pp. Institute of Physics, London, 1984. \$59.00

Hawaii Topical Conference in Particle Physics. *Selected Lectures in Particle Physics*. S. Pakvasa, S. F. Tuan, eds. 1000 pp. (2 vols.) World Scientific (US dist. Heyden,