

# BOOKS RECEIVED

## Astronomy

- BOK, B.J. and BOK, P.F. *The Milky Way*. 5th Edn. Pp.356. ISBN 0-674-57503-2. (Harvard University Press: 1981.) £14.
- HOYLE, F. *The Quasar Controversy Resolved*. Pp.80. Flexi ISBN 0-906449-28-6. (University College Cardiff Press: 1981.) £3.25.
- PEEK, B.M. *The Planet Jupiter. The Observer's Handbook*. 2nd Edn. Revised by Patrick Moore. Pp.240. ISBN 0-571-18026-4. (Faber & Faber: 1981.) £10.
- PONNAPERUMA, C. (ed.). *Comets and the Origin of Life*. Proceedings of the 5th College Park Colloquium, University of Maryland, College Park, Maryland, October 1980. Pp.282. ISBN 90-277-1318-9. (Reidel: 1981.) Dfl.85, \$39.50.
- WHEELER, J.C. (ed.). *Type I Supernovae*. Proceedings of the Texas Workshop held in Austin, Texas, March 1980. Pp.216. Pbk ISBN 0-9603796-1-4. (University of Texas at Austin: 1980.) Pbk \$5.

## Physics

- EHRENBERG, W. and GIBBONS, D.J. *Electron Bombardment Induced Conductivity and Its Applications*. Pp.448. ISBN 0-12-233350-0. (Academic: 1981.) £39.80, \$96.
- HAMEKA, H.F. *Quantum Mechanics*. Pp.387. ISBN 0-471-09223-1. (Wiley: 1981.) £24, \$43.25.
- HODGSON, P.E. *Growth Points in Nuclear Physics*, Vol. 3. Pp.261. Hbk ISBN 0-08-026485; flexi ISBN 0-08-02648-0. (Pergamon: 1981.) Hbk np; flexi £4.70, \$10.30.
- HOWES, M.J. and MORGAN, D.V. *Large Scale Integration. Devices, Circuits, and Systems*. Pp.346. ISBN 0-471-27988-9. (Wiley: 1981.) £17.50, \$39.50.
- KUO, T.T.S. and WONG, S.S.M. (eds). *Topics in Nuclear Physics, I. A Comprehensive Review of Recent Developments*. Lecture Notes in Physics, Vol.144. Lecture Notes for the International Winter School in Nuclear Physics held at Beijing (Peking), December 1980–January 1981. Pp.567. Flexi ISBN 3-540-10851-3. (Springer-Verlag: 1981.) DM 59, \$26.90.
- KUO, T.T.S. and WONG, S.S.M. (eds). *Topics in Nuclear Physics, II. A Comprehensive Review of Recent Developments*. Lecture Notes in Physics, Vol. 145. Lecture Notes for the International Winter School in Nuclear Physics held at Beijing (Peking), December 1980–January 1981. Pp.511. Flexi ISBN 3-540-10853-X. (Springer-Verlag: 1981.) DM 59, \$26.90.
- LOPES, J.L. *Gauge Field Theories: An Introduction*. Pp.484. ISBN 0-08-026501-4. (Pergamon: 1981.) £17, \$37.
- MARTIN, J.L. *Basic Quantum Mechanics*. Pp.241. Hbk ISBN 0-19-851815; pbk ISBN 0-19-851816-1. (Clarendon Press/Oxford University Press: 1981.) Hbk £17.50; pbk £7.95.
- NEGELE, J.W. and VOGT, E. (eds). *Advances in Nuclear Physics*, Vol.12. Pp.258. ISBN 0-306-40708-6. (Plenum: 1981.) \$35.
- NEWTON, R.C., NAVROTSKY, A. and WOOD, B.J. (eds). *Thermodynamics of Minerals and Melts*. *Advances in Physical Geochemistry*, Vol. 1. Pp.304. ISBN 3-540-90530-8. (Springer-Verlag: 1981.) DM 78, \$35.50.
- PERLMUTTER, A. (ed.). *Gauge Theories, Massive Neutrinos, and Proton Decay*. *Studies in the Natural Sciences*, Vol. 18. Proceedings of Orbis Scientiae 1981, held by the Centre for Theoretical Studies, University of Miami, Coral Gables, Florida, January 1981. Pp.392. ISBN 0-306-40821-X. (Plenum: 1981.) \$49.50.
- VANASSE, G.A. (ed.). *Spectrometric Techniques*, Vol. II. Pp.303. ISBN 0-12-710402-X. (Academic: 1981.) \$43.
- ZABOLITZKY, J.G. *et al.* (eds). *Recent Progress in Many-Body Theories*. Lecture Notes in Physics, Vol. 142. Proceedings of the 2nd International Conference held at Oaxtepec, Mexico, January 1981. Pp.479. Flexi ISBN 3-540-10710-X. (Springer-Verlag: 1981.) DM 52, \$24.80.

## Chemistry

- CAZES, J. (ed.). *Liquid Chromatography of Polymers and Related Materials III*. Chromatographic Science Series, Vol. 19. Pp.312. ISBN 0-8247-1514-4. (Marcel Dekker: 1981.) SwFr. 108.
- FRIEDLANDER, G. *et al.* *Nuclear and Radiochemistry*. 3rd Edn. Pp.684. Hbk ISBN 0-471-28021-6; pbk ISBN 0-471-86255-X. (Wiley: 1981.) Hbk £31, \$55.90; pbk £18.90, \$33.95.
- KAUFFMAN, G.B. *Inorganic Co-ordination Compounds*. Pp.256. Hbk ISBN 0-85501-683-3; pbk ISBN 0-85501-684-1. (Heyden, London: 1981.) Hbk £12; pbk £5.50.
- MANN, B.E. and TAYLOR, B.F. <sup>13</sup>C NMR Data for Organometallic Compounds. Pp.400. ISBN 0-12-469150-1. (Academic: 1981.) £15.80, \$32.50.
- RAMSAY, O.B. *Stereochemistry*. Pp.254. Hbk ISBN 0-85501-681-7; pbk ISBN 0-85501-682-5. (Heyden, London: 1981.) Hbk £12; pbk £5.50.
- TRENN, T.J. *Transmutation—Natural and Artificial*. Pp.160. Hbk ISBN 0-85501-685-X; pbk ISBN 0-85501-686-8. (Heyden, London: 1981.) Hbk £12; pbk £5.50.
- VON BALLMOOS, R. *The <sup>18</sup>O-Exchange Method in Zeolite Chemistry: Synthesis, Characterization and Dealumination of High Silica Zeolites*. Pp.235. Flexi ISBN 3-7935-5523-2. (Otto Salle Verlag, Frankfurt: 1981.) Np.

## Technology

- BUTLER, E.P. and HALE, K.F. *Dynamic Experiments in The Electron Microscope*. Practical Methods in Electron Microscopy, Vol.9. Pp.457. Hbk ISBN 0-444-80285-1; pbk ISBN 0-444-80286-X. (Elsevier/North-Holland Biomedical, Amsterdam: 1981.) Hbk \$95.25, Dfl.195; pbk \$45, Dfl.92.

DANCKWERTS, P.V. *Insights into Chemical Engineering*. (Selected Papers of P.V. Danckwerts) Pp.307. ISBN 0-08-026250-3. (Pergamon: 1981.) £27, \$65.

FIECHTER, A. (ed.) *Reactors and Reactions*. *Advances in Biochemical Engineering*, Vol.19. Pp.269. ISBN 3-540-10464-X. (Springer-Verlag: 1981.) DM98, \$44.60.

MIDDLEDITCH, B.S. (ed.) *Environmental Effects of Off-shore Oil Production*. *The Buccaneer Gas and Oil Field Study*. Marine Science, Vol.14. Proceedings of a Symposium held October 1980 during EXPOCHEM '80 in Houston, Texas. Pp.446. ISBN 0-306-40826-0. (Plenum: 1981.) \$49.50.

MOORE, J.G. (ed.). *Scientific Basis for Nuclear Waste Management*, Vol.3. Proceedings of the 3rd International Symposium held in Boston, Massachusetts, November 1980. Pp.632. ISBN 0-306-40803-1. (Plenum: 1981.) \$49.50.

MORAAL, J. and KRAISS, K.-F. *Manned Systems Design. Methods, Equipment, and Applications*. Proceedings of a Conference held September 1980 in Freiburg, West Germany. NATO Conference Series III: Human Factors, Vol.17. Pp.487. ISBN 0-306-40804-X. (Plenum: 1981.) \$35.

PICHLER, F.R. and TRAPPL, R. (eds). *Progress in Cybernetics and Systems Research*, Vol. VI, Cybernetics in Biology and Medicine Systems Analysis, Systems Engineering Methodology, Mathematical Systems Theory. Pp.416. ISBN 0-89116-194-5; ISBN 0-07-049846-6. (Hemisphere, New York/McGraw Hill: 1981.) \$80.

PROBSTEIN, R.F. and HICKS, R.E. *Synthetic Fuels*. Pp.490. ISBN 0-07-050908-5. (McGraw-Hill: 1981.) \$29.95.

VON DER HARDT, P. and RÖTTGER, H. (eds). *Commission of the European Communities. Handbook of Materials Testing Reactors and Associated Hot Laboratories in the European Community*. Nuclear Science and Technology. Pp.152. ISBN 90-277-1347-2. (Reidel: 1981.) Dfl.55, \$24.

## Computer Science

DUFF, M.J.B. and LEVIALDI, S. (eds). *Languages and Architectures for Image Processing*. Pp.300. ISBN 0-12-223320-4. (Academic: 1981.) £16.40, \$39.50.

HERMAN, G.T. *Image Reconstruction from Projections. The Fundamentals of Computerized Tomography*. Pp.316. ISBN 0-12-342050-4. (Academic: 1981.) \$29.50.

KATZ, P. *Digital Control Using Microprocessors*. Pp.293. ISBN 0-13-212191-3. (Prentice-Hall: 1981.) £16.95.

LEWIS, R. and TAGG, E.D. (eds). *Computer Assisted Learning: Scope, Progress and Limits*. Proceedings of the IFIP TC Working Conference, Roehampton, England, September 1979. Pp.223. ISBN 0-435-77700-9. (Heinnerman Educational, London: 1981.) £4.95.

TANIMOTO, S. and KLINGER, A. (eds). *Structured Computer Vision. Machine Perception through Hierarchical Computation Structures*. Pp.234. ISBN 0-12-683280-3. (Academic: 1980.) \$21.

## General

HOCKNEY, R.W. and EASTWOOD, J.W. *Computer Simulation Using Particles*. Pp.540. ISBN 0-07-029108-X. (McGraw-Hill: 1981.) £27.50.

HUECK-VAN DER PLAS, E.H. (ed.). *Chemosphere: Chemistry, Biology and Toxicology as Related to Environmental Problems*. Special Issue: Disposal of Chemical Waste in the Marine Environment. Implications of the International Dumping Conventions. Pp.505-716. Pbk ISBN 0-08-026289-9. (Pergamon: 1981.) Pbk £7.25, \$16.

JAKI, S.L. *Immanuel Kant. University Natural History and Theory of the Heavens*. Pp.302. ISBN 0-7073-0294-3. (Scottish Academic Press, Edinburgh: 1981.) £12.50.

JAKLOVSKY, J. *Preparation of Nuclear Targets: A Comprehensive Bibliography*. Pp.324. ISBN 0-306-65200-5. (IFI/Plenum: 1981.) Np.

JOHANSSON, T.B. and STEEN, P. *Radioactive Waste from Nuclear Power Plants*. Pp.197. ISBN 0-520-04199-2. (University of California Press: 1981.) \$15.95.

KEPLER, J. *Mysterium Cosmographicum. The Secret of the Universe*. Pp.267. ISBN 0-913870-64-1. (Abaris Books, New York: 1981.) Np.

KUZNETSOV, B.V. (ed.). *Russian-English Polytechnical Dictionary*. About 90,000 terms. Pp.723. ISBN 0-08-023609-X. (Pergamon: 1981.) £45, \$110.

LEARMONTH, A.T.A. (ed.). *The Geography of Health*. Pp.262. ISBN 0-08-027434-X. (Pergamon: 1981.) £8.50, \$20.

LEWIS, G.N.J. (ed.). *Proceedings of the Seminar, Environmental Quality: The Industrial Dimension*, held at the Harwell Laboratory, June 1980. Pp.212. (no ISBN) (AERE, Harwell, Oxfordshire: 1981.) Np.

LIKENS, G.E. (ed.). *SCOPE 17. Some Perspectives of the Major Biogeochemical Cycles*. Published on behalf of SCOPE of the ICSU. Pp.175. ISBN 0-471-27989-7. (Wiley: 1981.) £11, \$74.95.

LOWE, F.R. *Milking Machines: A Comprehensive Guide for Farmers, Herdsmen and Students*. Pp.181. Hbk ISBN 0-8-024381-9; flexi ISBN 0-08-024382-7. (Pergamon: 1981.) Hbk np; flexi £6.50, \$13.

MACDONALD, M. *Mystical Bedlam: Madness, Anxiety and Healing in Seventeenth-Century England*. Pp.323. ISBN 0-521-23170-1. (Cambridge University Press: 1981.) £27.50.

MARTIN, J. *Telematic Society. A Challenge for Tomorrow*. Pp.244. ISBN 0-13-902460-3. (Prentice-Hall: 1981.) £9.70.

MEYERHOFF, A.A. *The Oil and Gas Potential of the Soviet Far East*. Pp.176. Flexi ISBN 0-901360-13-9. (The Scientific Press, Beaconsfield, Bucks: 1981.) Np.

MICHAELS, M. *Stay Healthy with Wine*. Pp.246. ISBN 0-8037-8139-3. (Columbus Books, London: 1981.) £6.95.

MITCHELL, A.W. *Operation Drake Voyage of Discovery*. Pp.224. ISBN 0-7278-2007-9. (Severn House, London: 1981.) £12.95.