

Recent scientific and technical books

Mathematics

- CONTI, R. Linear Differential Equations and Control. (Istituto Nazionale di Alta Matematica. *Intitutions Mathematicae*, Vol. 1.) Pp.174. (London and New York: Academic Press, 1976.) £6; \$11.75.
- DA PRATO, G. Applications Croissantes et Équations d'Évolution dans les Espaces de Banach. (Istituto Nazionale di Alta Matematica. *Intitutions Mathematicae*, Vol. 2.) Pp.146. (London and New York: Academic Press, 1976.) £6; \$11.75.
- JACOBS, D. (edited by). The State of the Art in Numerical Analysis. (Proceedings of the Conference held at the University of York, April 12th-15th, 1976, organised by The Institute of Mathematics and Its Applications.) Pp.xix+978. ISBN-0-12-378650-9. (London and New York: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) £20; \$39.
- MICHEL, Anthony N., and MILLER, Richard K. Qualitative Analysis of Large Scale Dynamical Systems. (Mathematics in Science and Engineering: A Series of Monographs and Textbooks, Vol. 134.) Pp.xv+289. ISBN-0-12-493850-7. (New York and London: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) \$22.50; £15.95.
- SPENCER, A. J. M., PARKER, D. F., BERRY, D. S., ENGLAND, A. H., FAULKNER, T. R., GREEN, W. A., HOLDEN, J. T., MIDDLETON, D., and ROGERS, T. G. Engineering Mathematics. Pp.xi+400. ISBN-0-442-30206-1. (v.2). (New York and London: Van Nostrand Reinhold Company, Ltd., 1977.)

Astronomy

- BOHME, S., ESSER, U., FRICKE, W., GUNTZEL-LINGNER, U., HEINRICH, I., KRAHN, D., SCHMADEL, L. D., and ZECH, G. (edited by). Astronomy and Astrophysics Abstracts, Vol. 18: Literature 1976, Part 2. (A Publication of the Astronomisches Rechen-Institut Heidelberg, Member of the Abstracting Group of the International Council of Scientific Unions.) Pp. viii+859. ISBN-3-540-08319-7. (Berlin and New York: Springer-Verlag, 1977. Published for Astronomisches Rechen-Institut.) DM86; \$37.90.

Physics

- BENNETT, Jr., W. R. The Physics of Gas Plasmas. (Documents on Modern Physics.) Pp.ix+214. ISBN-0-677-03320-6. (New York, London and Paris: Gordon and Breach Science Publishers, Inc., 1977.) £18.
- CARMELI, MOSCHE. Group Theory and General Relativity. (International Series in Pure and Applied Physics) Pp.xii+391. ISBN-0-07-009986-3. Berkshire, England: McGraw-Hill; 1977) £16.85.
- FURER, A. (edited by). Crystal Field Effects in Metals and Alloys. Pp.xiv+365. ISBN-0-306-31008-2. (New York and London: Plenum Press, 1977.) \$45.
- LANDOLT-BORNSTEIN. Numerical Data and Functional Relationships in Science and Technology. Zahlenwerte und Funktionen aus Naturwissenschaften und Technik. New Series/Neue Serie. Editor in Chief/Gesamtherausgeber: K. H. Hellwege. Group II: Atomic and Molecular Physics/Atom- und Molekularphysik. Vol. 9. Supplement and Extension to Vol. 1/Ergänzung und Erweiterung zu Band 1. Magnet Properties of Free Radicals/Magnetische Eigenschaften Freier Radikale. Part A/, Teil A: Atoms, Inorganic Radicals and Radicals in Metal Complexes/Atome, Anorganische Radikale und Radikale in Metallkomplexen. By/Von C. Daul, H. Fischer, J. R. Morton, K. F. Preston and A. v. Zelewsky. Editors/Herausgeber: H. Fischer and K. H. Hellwege. Pp.x+341. ISBN-3-540-08019-8. (Berlin and New York: Springer-Verlag, 1977.) DM350; \$154.
- LOVESEY, S. W., and SPRINGER, T. (edited by). Dynamics of Solids and Liquids by Neutron Scattering. (Topics in Current Physics, Vol. 3.) Pp.xi+379. ISBN-3-540-08156-9. (Berlin and New York: Springer-Verlag, 1977.) DM72; \$31.70.
- MARON, E., FRIESE, A. A., and WEINER-AVNEAR, E., (editors). Applications of Holography and Optical Data Processing (Proceedings of the International Conference, Jerusalem Aug. 23-26, 1976). Pp.xvi+723. ISBN-0-08-021625-0. (Oxford, New York, Toronto, Sydney, Paris and Frankfurt: Pergamon Press; 1977.)
- OPPENHEIM, Irwin, SHULER, Kurt E., and WEISS, George H. Stochastic Processes in Chemical Physics: The Master Equation. Pp.viii+561. ISBN-0-262-15017-4. (Cambridge, Mass. and London: The MIT Press, 1977.) £14.
- USCINSKI, B. J. The Elements of Wave Propagation in Random Media. Pp.xvii+153. ISBN-0-07-066650-4. (New York and London: McGraw-Hill International Book Company, 1977.) £33.35.

Chemistry

- BOSCHKE, F. L. (managing editor). Inorganic Biochemistry, II. (Topics in Current Chemistry, Vol. 69.) Pp.iv+204. ISBN-3-540-08157-7. (Berlin and New York: Springer-Verlag, 1977.) DM84; \$37.
- ELIAS, HANS-GEORGE. Macromolecules: Synthesis and Materials. Pp.xxx+1131. ISBN-0-471-99488. (London, New York and Toronto, John Wiley & Sons; 1977.) £24.00 \$42.50.
- EPIOTIS, N. D., CHERRY, W. R., SHAIK, S., YATES, R., and BERNARDI, F. Structural Theory of Organic Chemistry. (Topics in Current Chemistry, Vol. 70.) Pp.viii+250. ISBN-3-540-08099-6. (Berlin and New York: Springer-Verlag, 1977.) DM90; \$41.40.
- NIKETIC, S. R., and RASMUSSEN, K. The Consistent Force Field: a Documentation. (Lecture Notes in Chemistry, Vol. 3.) Pp.ix+212. ISBN-3-540-08344-8. (Berlin and New York: Springer-Verlag, 1977.) DM28.80; \$12.70 (No pub. date).
- PIZEY, J. S. Synthetic Reagents: Lithium Aluminium Hydride. Pp.234. ISBN-85312-081-1. (Chichester: Ellis Horwood, Ltd., 1977. World Distributors: John Wiley and Sons, Inc., New York, London, Sydney and Toronto.) £9; \$17.10.
- RANBY, B., and RABEK, J. F. ESR Spectroscopy in Polymer Research. (Polymers/Properties and Applications, Vol. 1.) Pp. xiv+410. ISBN-3-540-08151-8. (Berlin and New York: Springer-Verlag, 1977.) DM112; \$49.30.
- ROBERTS, John D., and CASERIO, Marjorie C. Basic Principles of Organic Chemistry. Second edition. Pp.xix+1596. ISBN-0-8053-8329-8. (Menlo Park, Calif. and London: W. A. Benjamin, Inc., 1977.) \$24.95.
- SVAROVSKY, Ladislav (edited by). Solid-Liquid Separation. (Chemical Engineering Series.) Pp.xii+333. ISBN-0-408-70795-X. (London and Boston, Mass.: Butterworths, 1977.) £21.

Technology

- BLANC, J. P., and MONRO, Mary (edited by). Design and Construction of Offshore Structures. (Proceedings of the Conference held on 27-28 October 1976.) Pp.177. ISBN-0-7277-0041-3. (London: Thomas Telford Limited, 1977. Published for the Institution of Civil Engineers.) £16.

- HERMAN, Stewart W., CANNON, James S., and MALEFATTO, Alfred J. ORR, Leonard H. (edited by). Energy Futures: Industry and the New Technologies. Pp.xvi+651. ISBN-0-88410-613-6. (Cambridge, Mass.: Ballinger Publishing Company, a Subsidiary of J. B. Lippincott Company, 1977. Distributed in UK by John Wiley and Sons, Ltd., Chichester.) £30.15; \$49.50.
- LYNCH, A. J. With contributions by BUSH, P. D. *et al.* Mineral Crushing and Grinding Circuits: Their Simulation, Optimisation, Design and Control. (Developments in Mineral Processing, 1.) Pp.xii+342. ISBN-0-444-41528-9. (Amsterdam, Oxford and New York: Elsevier Scientific Publishing Company, 1977.) Dfl.122; \$49.50.
- OWER, E., and PANKHURST, R. C. The Measurement of Air Flow. 5th edition (in SI Units). Pp.xi+362. ISBN-0-08-021281-6. (Oxford and New York: Pergamon Press, 1977.) £6.25.
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- WARNER, F. L. Microwave Attenuation Measurement. Pp.xix+338. ISBN-0-901223-79-4. (Stevenage, Herts.: Peter Peregrinus, Ltd., 1977. Published on behalf of the Institution of Electrical Engineers.) UK £14; Overseas £16.40 (excluding Americas.)
- WELCH, Ann., WELCH, Lorne, and IRVING, Frank. New Soaring Pilot. Third edition, revised and enlarged. Pp.xiv+412+10 plates. ISBN-0-7195-3302-3. (London: John Murray (Publishers), Ltd., 1977.) £7.50 net.

Earth Sciences

- COLEMAN, Robert G. Ophiolites: Ancient Oceanic Lithosphere? (Minerals and Rocks, Vol. 12.) Pp.ix+229. ISBN-3-540-08276-X. (Berlin and New York: Springer-Verlag, 1977.) DM68; \$30.
- GEYER, Richard A. (edited by). Submersibles and Their Use in Oceanography and Ocean Engineering. (Elsevier Oceanography Series, 17.) Pp.xxi+383. ISBN-0-444-41545-9. (Amsterdam, Oxford and New York: Elsevier Scientific Publishing Company, 1977.) Dfl.120; \$49.
- HALLAM, A. (consultant editor). Planet Earth: an Encyclopedia of Geology. Pp.319. ISBN-0-7290-0055-9. (Oxford: Elsevier-Phaidon, an imprint of Phaidon Press, Ltd., 1977.) £7.95.
- HOLMQUIST, R., (Scientific Editor) and STICKLAND, A. C., (Executive Editor) Life Sciences and Space Research Vol. XV. Pp.ix+316. ISBN-0-08-021635-8. (Oxford, New York, Toronto, Sydney, Paris and Frankfurt; 1977.) £28.
- KAUFFMAN, Erle G., and HAZEL, Joseph E. (edited by). Concepts and Methods of Biostratigraphy. Pp.xiii+658. ISBN-0-470-99006-6. (Stroudsburg, Pennsylvania: Dowden, Hutchinson and Ross, Inc.; Chichester: John Wiley and Sons, Ltd., 1977.) \$44.45; £26.25.
- LOVELL, J. P. B. The British Isles Through Geological Time: a Northward Drift. Pp.40. ISBN-0-04-554003-9. (London, Boston, Mass. and Sydney: George Allen and Unwin (Publishers), Ltd., 1977.) £1.95.
- PEACEMAN, Donald W. Fundamentals of Numerical Reservoir Simulation. (Developments in Petroleum Science, 6.) Pp.xiii+176. ISBN-0-444-41578-5. (Amsterdam, Oxford and New York: Elsevier Scientific Publishing Company, 1977.) Dfl.98; \$39.95.
- TARLING, D. H., and TARLING, M. P. Continental Drift: a Study of the Earth's Moving Surface. Second edition. Pp.154+5 photographs. ISBN-0-14-02-1533-6. (Harmondsworth, Middx.: Penguin Books, Ltd., 1977.) 80p.
- PONNAMPERUMA, Cyril (edited by). Chemical Evolution of the Early Precambrian. Pp.xi+221. ISBN-0-12-561360-1. (New York and London: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) \$13.50; £9.60.

Biology

- ALAYEV, Yu. G. Nekton. Pp.vi+435. ISBN-90-6193-560-1. (The Hague: Dr W. Junk b.v., Publishers, 1977.) Dutch guilders 120.
- ATASSI, M. Z. (edited by). Immunochemistry of Proteins, Vol. 2. Pp.xx+438. ISBN-0-306-36222-8 (v.2). (New York and London: Plenum Press, 1977.) \$53.40.
- BOGORAD, L., and WEIL, J. H. (edited by). Nucleic Acids and Protein Synthesis in Plants. (NATO Advanced Study Institutes Series. Series A: Life Sciences, Vol. 12.) Pp.xi+417. ISBN-0-306-35612-0. (New York and London: Plenum Press, 1977. Published in cooperation with NATO Scientific Affairs Division.) \$47.40.
- BRONNER, Felix, and KLEINZELLER, Arnold (edited by). Current Topics in Membranes and Transport, Vol. 9. Pp.xiii+394. ISBN-0-12-153309-3. (New York and London: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) \$36; £25.55.
- CHAPPELL, J. B. ATP. (Carolina Biology Readers, 50.) Pp.32. ISBN-0-89278-250-1. (Burlington, North Carolina: Scientific Publications Division, Carolina Biological Supply Company, 1977.)
- COTTRELL, Glen A., and USHERWOOD, Peter N. R. (general editors). Synapses. (The Proceedings of an International Symposium held under the auspices of The Scottish Electrophysiological Society, 29 March - 2 April 1976.) Pp.xviii+384. ISBN-0-216-90326-2. (Glasgow and London: Blackie and Son, Ltd., 1977.) £13.95.
- DROOP, M. R., and JANNASCH, H. W. (edited by). Advances in Aquatic Microbiology, Vol. 1. Pp.viii+378. ISBN-0-12-003001-2. (London and New York: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) £14.50; \$31.75.
- ECHTERNACHT, Arthur C. How Reptiles and Amphibians Live. Pp.142. ISBN-0-7290-0023-0. (Oxford: Elsevier-Phaidon, an imprint of Phaidon Press, Ltd., 1977.) £4.50.

Psychology

- BUTTERWORTH, George (edited by). The Child's Representation of the World. Pp.xii+239. ISBN-0-306-31025-2. (New York and London: Plenum Press, 1977.) £27.
- EYSENCK, H. J. Psychology is About People. Pp.xvii+331. ISBN-0-14-02-1980-3. (Harmondsworth, Middx.: Penguin Books Ltd., 1977.) 90p.
- IZARD, Cartoll E. Human Emotions. (Emotions, Personality, and Psychotherapy.) Pp.xvi+495. ISBN-0-306-30986-6. (New York and London: Plenum Press, 1977.) \$30.
- PLOG, Stanley C., and AHMED, Paul I. (edited by). Principles and Techniques of Mental Health Consultation. (Current Topics in Mental Health.) Pp.xiv+234. ISBN-0-306-30963-7. (New York and London: Plenum Medical Book Company, 1977.) \$23.40.
- VAN PRAAG, H. M., Depression and Schizophrenia: A Contribution to their Chemical Pathologies. Pp.260. ISBN-0-89335-002-8. (London: SP Medical & Scientific Books; 1977.) £15.00.
- WHITAKER, Haiganoosh, and WHITAKER, Harry A. (edited by). Studies in Neurolinguistics, Vol. 3. (Perspectives in Neurolinguistics and Psycholinguistics.) Pp.xiv+322. ISBN-0-12-746303-8 (v.3). (New York and London: Academic Press, a Subsidiary of Harcourt Brace Jovanovich, Publishers, 1977.) \$18.50; £13.13.

History of Science

- BURKHARDT, Jr. Richard W. The Spirit of System: Lamarck and Evolutionary Biology. Pp.285. ISBN-0-674-83317-1. (Cambridge, Mass. and London: Harvard University Press, 1977.) £11.55.