

Mathematics

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BRAUN, M., COLEMAN, C.S. and DREW, D.A. (eds). Differential Equation Models. Modules in Applied Mathematics, Vol.1. Pp.380. ISBN 0-387-90695-9/3-540-90695-9. (Springer-Verlag: 1983.) DM 69, \$29.80.

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LICHENBERG, A.J. and LIEBERMAN, M.A. Regular and Stochastic Motion. Applied Mathematical Sciences, Vol.38. Pp.499. ISBN 0-387-90707-6/3-540-90707-6. (Springer-Verlag: 1983.) DM 108, \$44.60.

SANTILLI, R.M. Foundations of Theoretical Mechanics II: Birkhoffian Generalization of Hamiltonian Mechanics. Pp.370. ISBN 3-387-09482-2/3-540-09482-2. (Springer-Verlag: 1983.) DM 150, \$62.

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Astronomy

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FLOWER, D.R. (ed.). Planetary Nebulae. Symposium No.103 held August 1982, London. Pp.557. Hbk ISBN 90-277-1557-2; pbk ISBN 90-277-1558-0. (Reidel: 1983.) Hbk Dfl.150, \$65; pbk Dfl.70, \$30.50.

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WEST, R.M. (ed.). Transactions of the International Astronomical Union, Vol.18B. Proceedings of the 18th General Assembly. Pp.603. ISBN 90-277-1563-7. (Reidel: 1983.) Dfl.160, \$69.50.

ZUEV, V.E. and NAATSI, I.E. Inverse Problems of Lidar Sensing of the Atmosphere. Springer Series in Optical Sciences, Vol.29. Pp.260. ISBN 3-540-10913-7/0-387-10913-7. (Springer-Verlag: 1983.) DM 99, \$39.60.

Physics

AGRANOVICH, V.M. and MILLS, D.L. (eds). Surface Polaritons: Electromagnetic Waves at Surfaces and Interfaces. Pp.717. ISBN 0-444-86165-3. (Elsevier Biomedical/North Holland: 1982.) \$160.50, Dfl.345.

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BIRD, J.O., MAY, A.J.C. and PASCOE, S.J. Physics 2 Checkbook. Butterworths Technical and Scientific Checkbooks. Pp.229. Hbk ISBN 0-408-00692-7; pbk ISBN 0-408-00630-7. (Butterworths: 1983.) Hbk £8.95; pbk £3.95.

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EHRFELD, W. Elements of Flow and Diffusion Processes in Separation Nozzles. Springer Tracts in Modern Physics, Vol.97. Pp.140. ISBN 3-540-11924-8/0-387-11924-8. (Springer-Verlag: 1983.) DM 65, \$26.90.

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KAKAC, S. and ISHII, M. (eds). Advances in Two-Phase Flow and Heat Transfer: Fundamentals and Applications, Vols 1 and 2. NATO Advanced Science Institute Series: Applied Sciences, No.63 and 64. Pp.920. Vol.1. ISBN 90-247-2825-8; Vol.2 ISBN 90-247-2826-6; Set ISBN 90-247-2827-4. (Martinus Nijhoff: 1983.) Dfl.285, \$125.

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PEYRET, R. and TAYLOR, T.D. Computational Methods for Fluid Flow. Springer Series in Computational Physics. Pp.358. ISBN 0-387-11147-6/3-540-11147-6. (Springer-Verlag: 1983.) DM 92, \$36.80.

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SHANNON, R.R. and WYANT, J.C. (eds). Applied Optics and Optical Engineering, Vol.9. Pp.375. ISBN 0-12-408609-8. (Academic: 1983.) \$52.

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INSTITUTION OF ELECTRICAL ENGINEERS. Trends in On-Line Computer Control Systems. The 4th International Conference held April 1982, IEE Conference Publication No. 208. Pp.124. ISBN 0-85296-256-8. (Institution of Electrical Engineers: 1982.) £17.50, \$44.

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REED, R.P. and CLARK, A.F. (eds). Advances in Cryogenic Engineering Materials, Vol. 28. Pp.924. ISBN 0-306-41104-0. (Plenum: 1982.) Np.

ROBERTS, R., QUELLETTE, R.P. and CHEREMISINOFF, P.N. Industrial Applications of Electroorganic Synthesis. Pp.205. ISBN 0-250-40585-7. (Ann Arbor: 1982.) £27.50.