

## Mathematics

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## Astronomy

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**Astronomy and Astrophysics Abstracts Vol.35/36.** S. BOHME, W. FRICKE, H. HEFELE, I. HEINRICH, W. HOFMANN, D. KRAHN, V.R. MATAS, L.D. SCHMADEL and G. ZECH (eds). Author and Subject Indexes to Vols 25-34 Literature 1979-1983 prepared by I. HEINRICH and L.D. SCHMADEL. Springer-Verlag: 1984. Pp.891. ISBN 3-540-13651-7. DM 189, \$68.80.

**Atlas of the Night Sky.** STORM DUNLOP (ed.). Newnes Books: 1984. Pp.80. ISBN 0-600-35113-0. £4.95.

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**Collins Guide to Stars and Planets.** By IAN RIDPATH. Collins: 1984. Pp.384. ISBN 0-00-219071-0. £8.95.

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**Mathematical Astronomy in Copernicus's de Revolutionibus. Parts 1 & 2.** By N.M. SWERDLOW and O. NEUGEBAUER. Springer-Verlag: 1984. Part 1 pp.537, ISBN 0-387-90939-7/3-540-90939-7. Part 2 pp.711, ISBN 0-387-90939-7/3-540-90939-7. DM 238, \$88.80.

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## Biological Sciences

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**Lipids in Plants and Microbes.** By J.L. HARWOOD and N.J. RUSSELL. George Allen & Unwin: 1984. Pp.162. Hbk ISBN 0-04-574021-6; pbk ISBN 0-04-574022-4. Hbk £19.50; pbk £7.95, \$12.95.

**Membrane Dynamics and Transport of Normal and Tumor Cells.** L. TRÓN *et al.* (eds). Akadémiai Kiadó, Budapest: 1984. Pp.387. ISBN 963-05-3889-X. £22.75.

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**Methods in Enzymology. Vol. 107 Posttranslational Modifications, part B.** FINN WOLD and KIVIE MOLDAVE (eds). Academic: 1984. Pp.688. ISBN 0-12-182007-6. \$69.50, £49.

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## General

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**Sintering and Heterogeneous Catalysis.** Materials Science Research, Vol. 16. G.C. KUCZYNSKI, ALBERT E. MILLER and GORDON A. SARGENT (eds). Plenum: 1984. Pp.349. ISBN 0-306-41666-2. Np.

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**Theorie der Lebenserscheinungen.** By HERMANN SCHALTEGGER. S. Hirzel Verlag, Stuttgart: 1984. Pp.306. ISBN 3-7776-0395-3. DM 98.

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