

## Astronomy

**Astronomy and Astrophysics Abstracts, Vol.34.** S. BÖHME *et al.* (eds). Springer-Verlag: 1984. Pp.921. ISBN 3-540-13485-9/0-387-13485-9. DM 189, \$68.80.

**Bau und Physik der Galaxis.** By HELMUT SCHEFFLER and HANS ELSASSER. *Bibliographisches Institut, Mannheim:* 1984. Pp.642. ISBN 3-411-01641-8. Np.

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**Guidance and Control 1984. Advances in the Astronomical Sciences, Vol.55.** ROBERT D. CULP and PARKER S. STAFFORD (eds). *American Astronautical Society:* 1984. Pp.485. Hbk ISBN 0-87703-1991-1; pbk ISBN 0-87703-200-9. Hbk \$60; pbk \$50.

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**Star Formation Workshop, Edinburgh 1983.** R.D. WOLSTENCROFT (ed.). *Royal Observatory, Blackford Hill, Edinburgh EH9 3HJ:* 1984. Pp.227. Pbk ISBN 0-902553-30-5. Np.

## Physics

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