



## Galactic and Intergalactic Magnetic Fields Proceedings of the 140th Symposium of the International Astronomical Union Held in Heidelberg, F.R.G., . International Astronomical Union Symposia

By -

Springer. Hardcover. Book Condition: New. Hardcover. 540 pages. Dimensions: 9.2in. x 6.1in. x 1.3in. This Symposium, the first devoted entirely to the measurement and the role of magnetic fields in the non-solar Universe, was held in Heidelberg, on June 19-23, 1989. The meeting began with review talks on magnetic phenomena near the solar photosphere, corona, and in stellar winds, since these nearby laboratories, studied for many years, provide much of the prior knowledge of magnetic effects in astrophysical plasmas. The Symposium contained presentations of considerable new work concerning the role of magnetic fields in accretion disks, bipolar outflows, and related magnetic phenomena in molecular clouds and star forming regions. Both observations and related theory of the large-scale magnetic fields in the Milky Way were covered, in addition to a session on the more general theme of magnetohydrodynamics of galactic magnetic fields. Dynamo mechanisms were discussed in considerable detail. It was apparent that recent observational data on polarized emission from external galaxies are now of sufficiently high quality that meaningful tests of large-scale field amplification, and of ideas on the origin of galactic magnetic fields, can be undertaken. Both new observations and numerical simulation work were described in the context...

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