

INTERNATIONAL ASTRONOMICAL UNION

HIGHLIGHTS OF ASTRONOMY

VOLUME 7

Edited by

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This book first reproduces the texts of the three **Invited Discourses** on “Pulsars and their genesis” (V. Radhakrishnan), “Dark Matter in the Universe” (V. Rubin), and “Venus” (R. Sagdeev). It then presents the proceedings of seven one-day **Joint Discussions** which are centered on broad subjects of great actuality and which review the status of research in particular fields of astronomy : “Reference frames”, “Long-period eclipsing binary stars and related objects”, “Solar and stellar non-radial oscillations”, “Radio astronomy and cosmology”, “Stellar activity : rotation and magnetic fields”, “Evolution in young populations in galaxies”, and “Supernovae”. Of the numerous **Joint Commission Meetings** held in Delhi, the five that have been selected for inclusion here are concerned with fairly specialized subjects : their proceedings summarize the latest information on the “Hipparcos” project, “Coronal activity and interplanetary disturbances”, the “MERIT and COTES” programs, “Synthetic photometry”, “Standard stars”. Two additional contributions on new radio telescopes and galactic constants are also published. “Highlights of Astronomy” brings together about 120 of the most important and interesting talks that were delivered during the XIXth IAU General Assembly held in Delhi (November 19–28, 1985) : in essence, the present status of a wide variety of very active fields of astronomy is reviewed here.

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