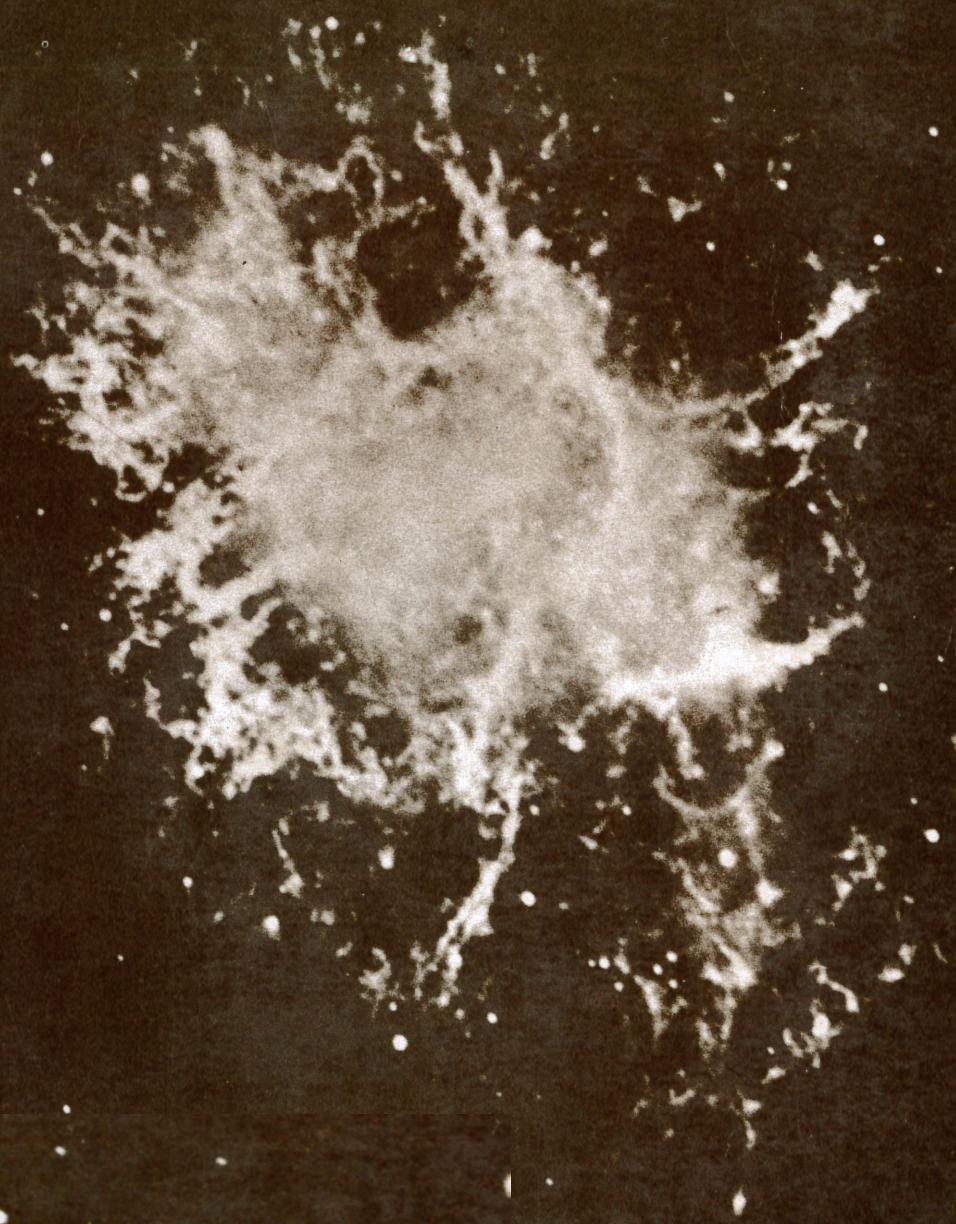


SUPERNOVAE THEIR PROGENITORS AND REMNANTS



EDITED BY

G. SRINIVASAN

V. RADHAKRISHNAN

Contents

Preface		iii
Problems of Supernova Remnants	L. Woltjer	1
Supernova Progenitors	Virginia Trimble	9
Radio and X-ray Observations of Extragalactic Supernovae	K. W. Weiler	23
Supernovae in Ellipticals	R. K. Kochhar	47
Secondary Particle Production and γ -ray Emission from Supernova Exploding in Dense Clouds	S. A. Stephens	55
The Radio and X-ray Emission from Supernovae	Roger A. Chevalier	65
Pulsars, Evolution of Plerions and Radiosupernovae	Franco Pacini	75
Observational Aspects of Supernova Remnants	David Clark	85
A Search for Compact Sources in Supernova Remnants J. H. van Gorkom, R. D. Ekers, K. Johnston, V. Radhakrishnan, C. J. Salter		93
How Often are Remnants like the Crab Nebula Born? K. S. Dwarakanath & G. Srinivasan		97
On Pulsar-SNR Associations	G. Srinivasan	105
On the Nature of the Supernova Remnant 0540-69.3 in the Large Magellanic Cloud	D. Bhattacharya & G. Srinivasan	119
Formation and Evolution of Neutron Stars in Binary Systems E. P. J. van den Heuvel & G. M. H. J. Habets		129
On the Meaning of Pulsar Velocities	V. Radhakrishnan & C. S. Shukre	155
Concluding Review	L. Woltjer	171
Participants		177