





## CONTENTS

FROM STEAM TO STARS TO THE EARLY UNIVERSE, <i>William A. Fowler</i>	1
DUST-GAS INTERACTIONS AND THE INFRARED EMISSION FROM HOT ASTROPHYSICAL PLASMAS, <i>Eli Dwek and Richard G. Arendt</i>	11
WARPS, <i>James J. Binney</i>	51
ASTRONOMICAL MASERS, <i>Moshe Elitzur</i>	75
SOLAR FLARES AND CORONAL MASS EJECTIONS, <i>S. W. Kahler</i>	113
MAGNETIC FIELDS OF DEGENERATE STARS, <i>Ganesh Channugam</i>	143
THE PLUTO-CHARON SYSTEMS, <i>S. A. Stern</i>	185
NEW DEVELOPMENTS IN UNDERSTANDING THE HR DIAGRAM, <i>Cesare Chiosi, Gianpaolo Bertelli, and Alessandro Bressan</i>	235
EVIDENCE FOR BLACK HOLES IN STELLAR BINARY SYSTEMS, <i>Anne P. Cowley</i>	287
COSMOLOGICAL APPLICATIONS OF GRAVITATIONAL LENSING, <i>R. D. Blandford and R. Narayan</i>	311
TYPE Ia SUPERNOVAE AS STANDARD CANDLES, <i>David Branch and G. A. Tammann</i>	359
X-RAY ASTRONOMY MISSIONS, <i>Hale V. D. Bradt, Takaya Ohashi, and Kenneth A. Pounds</i>	391
THE ORIGIN OF THE X-RAY BACKGROUND, <i>A. C. Fabian and X. Barcons</i>	429
LONG-BASELINE OPTICAL AND INFRARED STELLAR INTERFEROMETRY, <i>M. Shao and M. M. Colavita</i>	457
THE COSMOLOGICAL CONSTANT, <i>Sean M. Carroll, William H. Press, and Edwin L. Turner</i>	499
SMOOTHED PARTICLE HYDRODYNAMICS, <i>J. J. Monaghan</i>	543
RADIO EMISSION FROM NORMAL GALAXIES, <i>J. J. Condon</i>	575
EVIDENCE FOR EVOLUTION IN FAINT FIELD GALAXY SAMPLES, <i>David C. Koo and Richard G. Kron</i>	613
OBSERVATIONS OF THE ISOTROPY OF THE COSMIC MICROWAVE BACKGROUND RADIATION, <i>Anthony C. S. Readhead and Charles R. Lawrence</i>	653

(continued) vii

viii CONTENTS (*continued*)

DYNAMICS OF INTERACTING GALAXIES, <i>Joshua E. Barnes and Lars E. Hernquist</i>	705
INDEXES	
Subject Index	743
Cumulative Index of Contributing Authors, Volumes 20–30	758
Cumulative Index of Chapter Titles, Volumes 20–30	761

