Contents

The S-Process By N. Prantzos (With 12 Figures)	1
The P-Process By N. Prantzos (With 5 Figures)	18
Gamma Ray Line Astronomy By N. Prantzos (With 15 Figures)	28
Synthesis of Light Elements By M. Arnould and M. Forestini (With 10 Figures)	48
Type I Supernovae By J. Isern	86
Explosive Nucleosynthesis By F.K. Thielemann (With 14 Figures)	106
Neutrino Astrophysics By J.M. Irvine	141
Experimental Nuclear Astrophysics By C. Rolfs (With 8 Figures)	162
Nuclear Reactions of Hydrogen and Helium Burning By B.W. Filippone (With 6 Figures)	184
Nuclear Reactions in Highly Evolved Stars By C.A. Barnes (With 9 Figures)	197
New Methods in Low-Energy Experimental Nuclear Astrophysics By C.A. Barnes (With 9 Figures)	212
Effects of Density Inhomogeneities on Big-Bang Nucleosynthesis By C.A. Barnes (With 5 Figures)	226
Theoretical Studies of Nuclear Reactions at Astrophysical Energies By K. Langanke (With 6 Figures)	241
Equation of State at Subsaturation Densities By M. Barranco, F. Garcias, M. Pi, and E. Suraud (With 8 Figures)	265

Equation of State of Nuclear Matter By M. Baldo, L.S. Ferreira, and U. Lombardo (With 14 Figures)	279
Compressibility of Nuclear Matter: A Review of Experimental Results By M.M. Sharma (With 2 Figures)	306
Examples of Self-Gravitating Dark-Matter Structures By M. Membrado, A.F. Pacheco, and J. Sañudo (With 3 Figures)	316
Type II Supernovae By R. Canal	324
Short Contributions	339
Subject Index	347
List of Participants	351
Index of Contributors	355