

# Table of Contents

<i>Composition in Halley's Comet: Clues to Origin and History of Cometary Matter.</i> By J. Geiss (With 4 Figures) . . . . .	1
<i>Chemical Abundances in Meteorites.</i> By H. Palme (With 14 Figures)	28
<i>Chemical Abundances in Stars.</i> By T. Gehren (With 21 Figures) . . .	52
<i>Chemistry of Circumstellar Shells.</i> By A. Omont (With 2 Figures) . .	102
<i>Interstellar Molecular Formation Processes</i> By E. Herbst (With 2 Figures) . . . . .	114
<i>Chemical Abundances in Galaxies</i> By M.G. Edmunds (With 5 Figures) . . . . .	139
<i>An Overview of the Theory of Nucleosynthesis</i> By M. Arnould (With 3 Figures) . . . . .	155
<i>Chemical Composition and Ionisation States of the Solar Wind Plasma as Characteristics of Solar Phenomena</i> By R. Schwenn (With 1 Figure) . . . . .	179
<i>Nuclear Physics Constraints to Bring the Astrophysical R-Process to the "Waiting Point".</i> By K.-L. Kratz (With 13 Figures) . . . . .	184
<i>Molecular Clouds in the Milky Way: the Columbia-Chile CO Survey and Detailed Studies with the KOSMA 3m Telescope</i> By H. Ungerechts (With 7 Figures) . . . . .	210
<i>Molecular Millimeter and Submillimeter Observations</i> By J. Stutzki (With 4 Figures) . . . . .	221
<i>Nonequilibrium Chemistry in Circumstellar Shells.</i> By A. Goeres, R. Henkel, E. Sedlmayr, and H.-P. Gail (With 10 Figures) . . . . .	231
<b>List of Participants</b> . . . . .	249
<b>Index of Contributors</b> . . . . .	253