

TABLE OF CONTENTS

| | |
|--|-----|
| Preface | ix |
| List of Participants | xi |
| 1. Radiative Processes | |
| RADIATION FROM HOT, THIN PLASMAS J.C. Raymond | 3 |
| DIAGNOSTIC TECHNIQUES FOR HOT THIN ASTROPHYSICAL PLASMAS F. Bely-Dubau | 21 |
| 2. X-Ray Instrumentation | |
| INSTRUMENTATION FOR THE STUDY OF COSMIC X-RAY PLASMAS H.W. Schnopper | 35 |
| SYSTEMATIC ERRORS IN THE DETERMINATION OF X-RAY SPECTRUM PARAMETERS AND THE CALIBRATION OF SPACE EXPERIMENTS M.V. Zombeck | 65 |
| 3. Solar and Stellar Coronae | |
| THE SOLAR CORONA A.H. Gabriel | 79 |
| ULTRAVIOLET STELLAR SPECTROSCOPY C. Jordan | 97 |
| X-RAY EMISSION FROM NORMAL STARS J.H.M.M. Schmitt | 109 |
| SOME EXOSAT RESULTS ON STELLAR CORONAE R. Pallavicini | 121 |
| THE MAGNETIC FIELDS ON COOL STARS AND THEIR CORRELATION WITH CHROMOSPHERIC AND CORONAL EMISSION S.H. Saar | 139 |

| | |
|--|-----|
| RE-ANALYSIS OF THE CORONAL EMISSION FROM RS CVN TYPE BINARIES O. Demircan | 147 |
| 4. Related Optically-Thick Stellar Sources | |
| HIGH RESOLUTION SOFT X-RAY SPECTROSCOPY OF HOT WHITE DWARFS F. Paerels and J. Heise | 157 |
| PULSATING WHITE DWARFS M.A. Barstow | 167 |
| RADIATION FROM GAS ENVELOPES AROUND BE STARS K.M.V. Apparao and S.P. Tarafdar | 177 |
| 5. Supernova Remnants and the Hot Interstellar Medium | |
| X-RAY OBSERVATIONS OF HOT THIN PLASMA IN SUPERNOVA REMNANTS B. Aschenbach | 185 |
| THE HOT INTERSTELLAR MEDIUM: OBSERVATIONS R. Rothenflug | 197 |
| THEORY OF SUPERNOVA REMNANTS AND THE HOT INTERSTELLAR MEDIUM R.A. Chevalier | 213 |
| 6. Galaxies and Galactic Halos | |
| OBSERVATIONS OF GALAXIES AND GALACTIC HALOS G. Trinchieri | 235 |
| A THEORETICAL UNDERSTANDING OF HOT GAS AROUND GALAXIES J.N. Bregman | 247 |
| RAM PRESSURE STRIPPING AND GALACTIC FOUNTAINS E.E. Salpeter | 261 |
| 7. Clusters of Galaxies | |
| X-RAY OBSERVATIONS OF CLUSTERS OF GALAXIES R. Mushotzky | 273 |
| THEORY OF INTRACLUSTER GAS A.C. Fabian | 293 |

| | |
|--|-----|
| INTERGALACTIC PLASMA IN CLUSTERS: EVOLUTION A. Cavaliere and S. Colafrancesco | 315 |
| EXOSAT OBSERVATIONS OF THE VIRGO CLUSTER A.C. Edge, G.C. Stewart and A. Smith | 335 |
| 8. Future X-Ray Missions | |
| FIRST RESULTS FROM GINGA Y. Tanaka | 343 |
| THE ROSAT MISSION J. Truemper | 355 |
| THE WIDE FIELD CAMERA FOR ROSAT: OBSERVING STARS M.A. Barstow and K.A. Pounds | 359 |
| THE SAX X-RAY ASTRONOMY MISSION G.C. Perola | 369 |
| THE ADVANCED X-RAY ASTROPHYSICS FACILITY H. Tananbaum | 379 |
| THE XMM MISSION J.A.M. Bleeker and A. Peacock | 391 |
| THE USSR SPACE ASTRONOMY PROGRAMME A. Smith | 415 |
| FUTURE SPACE ASTRONOMY PROGRAMME OF JAPAN Y. Tanaka | 429 |