

Contents

<i>Preface:</i> M. ANASTASSIADES	vii
<i>Introduction:</i> J. AARONS	ix
<i>Opening Address:</i> R. SCHRADER	xi

SOLAR CHARACTERISTICS

<i>Chapter 1:</i> Solar Characteristics from Optical Observations, G. RIGHINI . .	1
<i>Chapter 2:</i> Introduction to the Study of Solar Radio Emission, J. F. DENISSE	39

THE QUIET SUN

<i>Chapter 3:</i> A Survey of Radio Observations of Solar Eclipses, J. CASTELLI AND J. AARONS	49
<i>Chapter 4:</i> The Slowly Varying Component of Solar Radiation, M. PICK .	81
<i>Chapter 5:</i> Radio Frequency Emissions of the Sun in the Centimeter- Wavelength Range: The Slowly Varying Sunspot Component, O. HACHENBERG	95
<i>Chapter 6:</i> Study of the Slowly Varying Component at Three Centimeters as a Function of Solar Activity, C. CAROUBALOS.	109

THE DISTURBED SUN

<i>Chapter 7:</i> The Solar Flare Phenomenon as Seen at Radio Frequencies, D. J. MCLEAN	117
<i>Chapter 8:</i> Sweep Frequency Measurements of Solar Bursts, J. W. WARWICK	131
<i>Chapter 9:</i> Noise Storms, A. D. FOKKER.	171
<i>Chapter 10:</i> Narrow-Band Studies of Solar Bursts, Ö. ELGARÖY	201
<i>Chapter 11:</i> Solar Noise Measurements by the Riometer Technique, M. ANASTASSIADES	225
<i>Chapter 12:</i> Radio Frequency Emission of the Sun in the Centimeter- Wavelength Range: Microwave Bursts, O. HACHENBERG . . .	241

THE INTERPLANETARY MEDIUM

- Chapter 13:* Radio Investigation of the Solar Corona and
the Interplanetary Medium, A. HEWISH 255
- Chapter 14:* Radio Astronomy of Solar System Plasmas, V. R. ESHLEMAN . 267

THE MOON

- Chapter 15:* The Interpretation of Thermal Emission from
the Moon, H. WEAVER 295
- Chapter 16:* Lunar Radar Reflections, G. PETTENGILL 355

THE PLANETS

- Chapter 17:* Some Problems of Planetary Radio Astronomy, H. WEAVER . . 371
- Chapter 18:* Planetary Radar Astronomy, G. PETTENGILL 401
- Abstract:* Distribution of the Ionizing Radiation on the Solar Disk
During the Solar Eclipse of Feb. 15, 1961, D. ILIAS 413
- Index* 415

