

# Contents

Preface .....	v
<b>Chapter 1. The Sun</b>	
The Source of Energy and Disturbances Affecting the Earth T. Sakurai, K. Shibata, H. Nakajima, and H. Kurokawa .....	1
<b>Chapter 2. Interplanetary Space</b>	
Exploration of the Heliosphere by Cosmic Rays K. Munakata .....	101
<b>Chapter 3. Magnetosphere Dynamics and Energy Transfer through Plasmasphere to Ionosphere</b>	
Dynamics of the magnetotail: Geotail observations S. Kokubun, T. Mukai, and A. Nishida .....	117
Effects of Betatron Drift on Plasmasphere and Plasmopause Verified by the Akebono (EXOS-D) Satellite Observations H. Oya .....	145
Transport of HM Energy through the Magnetosphere-Ionosphere Coupling System—Results from the Ground-Based Network Observations K. Yumoto .....	175
<b>Chapter 4. Dynamics and Interactions of Middle Atmosphere</b>	
Middle Atmosphere Response to Forcing from Above and Below S. Fukao, T. Tsuda, M. Yamamoto, T. Nakamura, H. Hashiguchi, and M. D. Yamanaka .....	213
Development of a Middle Atmosphere General Circulation Model and a <i>Sq</i> Variation Model at Kyushu University S. Miyahara and Y. Miyoshi .....	269
Subject Index .....	289