CONTENTS

HIGHLIGHTS OF RECENT SPACE RESEARCH

REMOTE SENSING OF THE EARTH'S ENVIRONMENT

Surface

Atmosphere

Satellite Geodesy

ATMOSPHERIC RESPONSE TO SOLAR AND GEOMAGNETIC ACTIVITY

Solar Variability and the Low and Middle Atmosphere

Calibration of instruments to study solar radiation

Stratospheric Observations

Winter Anomaly Studies from Arenosillo

Winter Anomaly Studies from Wallops Island

Local Time Variations

Satellite-Borne Accelerometer Results

THE THERMOSPHERE

Recent Observations of Neutral Species

Thermospheric Models

Exobase

THE IONOSPHERE

AEROS Results

Ion Composition

Equatorial Ionosphere

THE MAGNETOSPHERE

Electric Fields and Wave-Particle Interactions

Energetic Charged Particles

Geomegnetic Activity and Interplanetary Magnetic Field Orientation

THE SUN AND THE INTERPLANETARY MEDIUM

Solar Flares

Solar Energetic Charged Particles

Corona and Solar Wind

Solar Helium Resonance Radiation and Interaction of Interplanetary Medium with Interstellar Medium

COSMIC DUST

Spectrum of Zodiacal Light

Interplanetary Dust

MOON AND PLANETS

Gravitational Fields

ASTRONOMY

MATERIALS SCIENCE UNDER MICRO-GRAVITY CONDITIONS