

# Table of Contents

<b>Global Measurement Networks for Atmospheric Studies</b> <i>Paul C. Simon, Polymnia Skarlas</i> .....	1
<b>Atmospheric Observations in the Perspective of Changing Climate and Environment, and the Synergy Between Ground-Based, Airborne and Space-Based Measurements</b> <i>Martine De Mazière</i> .....	14
<b>A Review of Forward-Modeling Requirements</b> <i>Knut Stamnes</i> .....	50
<b>Electromagnetic Scattering by Nonspherical Particles</b> <i>Michael I. Mishchenko, Larry D. Travis</i> .....	77
<b>Modelling Information Content Problems of the Radiative Transfer Theory</b> <i>Rodolfo Guzzi, Oleg Smokty</i> .....	128
<b>The Earth Radiation</b> <i>Giuseppe Dalu</i> .....	154
<b>Analytical Inverse Methods for Aerosol Retrieval</b> <i>Kusiel S. Shifrin</i> .....	183
<b>Studying Atmospheric Aerosol by Lidar</b> <i>Gian Paolo Gobbi</i> .....	225
<b>Remote Sounding of the Stratosphere by the Occultation Method: The ORA Experiment</b> <i>Didier Fussen, Filip Vanhellemont, Christine Bingen</i> .....	242