1. Record Nr. UNISA990001966680203316

Autore	TONIOLO, Giuseppe <1845-1918>
Titolo	3 : Democrazia cristiana, concetti e indirizzi / Iniziative culturali e di azione cattolica
Pubbl/distr/stampa	Città del Vaticano, : Opera Omnia, 1951
Descrizione fisica	XI, 490 p. ; 21 cm
Collocazione	X.3.A. 1546/4.3(III E 1038/4 III)
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911027075703321

Autore	Kokhanovsky Alexander
Titolo	Analytical Methods in Radiative Transfer
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2025 ©2025
ISBN	3-527-69894-9 3-527-69895-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (183 pages)
Collana	Wiley Series in Atmospheric Physics and Remote Sensing Series
Altri autori (Persone)	NatrajVijay EfremenkoDmitry
Disciplina	523.0192
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Radiative Transfer Models in Atmospheric Remote Sensing -- 1.7 Electromagnetic Spectrum -- 1.8 Why Do We Need Analytical Models in Radiative Transfer? -- 1.9 Radiative Transfer and Climate Modeling -- 1.10 Remote Sensing of Trace Gases -- 1.11 Remote Sensing of Clouds -- 1.12 Remote Sensing of Atmospheric Aerosol -- Chapter 2: Radiative Transfer Equation -- 2.1 Introduction to Radiative Transfer Theory -- 2.2 Formulation of the RTE -- 2.3 RTE with Thermal Source -- 2.4 Optical Thickness and Single-scattering Albedo -- 2.5 Single-scattering Phase Function -- 2.6 Orders of Scattering -- 2.7 One-dimensional RTE -- 2.8 Formal Solution of the RTE -- 2.9 RTE for Azimuthal Harmonics of the Intensity -- 2.10 Radiance Moments -- 2.11 Light Reflection from Layered Media -- Chapter 3: Optically Thin Media and Media with Strongly Anisotropic Scattering -- 3.1 Single-scattering Approximation -- 3.2 Second-order Scattering Approximation -- 3.3 Small-angle Approximation -- Chapter 4: Semi-infinite Media -- 4.1 Milne Problem -- 4.2 Light in Deep Layers of Semi-infinite Turbid Media -- 4.3 Light Reflection from Semi-infinite Media -- 4.3.1 Invariant Imbedding -- 4.3.2 H-functions -- 4.3.3 Nonabsorbing Media -- 4.3.4 Weakly Absorbing Media -- Chapter 5: Optically Thick Media -- 5.1 Nonabsorbing Media -- 5.2 Weakly Absorbing Media -- 5.3 Optically Thick Turbid Media with an Arbitrary Level of Light Absorption -- 5.4 Asymptotic Equations -- Chapter 6: Turbid Media with Arbitrary Optical Thickness -- 6.1 Sobolev Approximation.
6.2 Two-stream Approximation -- 6.3 Four-stream Approximation -- 6.4 The Spherical Harmonics Method -- 6.5 Phase Function Truncation Methods -- Chapter 7: Radiative Transfer in Gaseous Absorption Bands -- 7.1 k-Distribution and Correlated-k Methods -- 7.2 Exponential Sum Fitting of Transmittances -- 7.3 Spectral Mapping -- 7.4 Optimal Spectral Sampling -- 7.5 Double-k, Linear-k, and Low-streams Interpolation Techniques -- 7.6 Computations in a Broad Spectral Range: 400-2500 nm -- 7.7 Concept of Dimensionality Reduction -- 7.8 Principal Component Analysis of Spectral Radiances -- 7.9 Principal Component Analysis for Differential Optical Absorption Spectroscopy -- 7.10 Principal Component Analysis of Optical Parameters -- 7.11 Neural Networks -- Appendix A: Legendre Polynomials -- Appendix B: Computations of Local Optical Parameters -- Bibliography -- Index -- EULA.

Sommario/riassunto

Provides in-depth knowledge of the physics of radiative transfer In Analytical Methods in Radiative Transfer , a team of distinguished researchers delivers a comprehensive exploration of solutions to practical problems of modern atmospheric optics related to solar light interaction with the terrestrial atmosphere and the remote sensing of clouds.