

Grant Petty Atmospheric Radiation Solutions

Atmospheric Radiation Atmospheric Radiation Radiative Transfer in a Cloudy Atmosphere Encyclopedia of Atmospheric Sciences The Federal Plan for Meteorological Services and Supporting Research Encyclopedia of Atmospheric Sciences Nuclear Science Abstracts...Note on M.Ph.Plantamour's Observations by Means of Levels on the Periodic Movements of the Ground at Sècheron, Near Geneva Doklady Proceedings of the Academy of Sciences of the USSR. The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science Nuclear Science Abstracts Atmospheric Actinometry and the Actinic Constitution of the Atmosphere Proceedings Scientific and Technical Aerospace Reports Journal of Geophysical Research Annual Report Dynamics of Atmospheric Entry Scientific Papers, Dept. of Chemistry and Chemical Engineering Zeitschrift Für Naturforschung James A. Coakley Jr. James A. Coakley Jr. R. E. Samuelson Gerald R. North United States. Office of Federal Coordinator for Meteorological Services and Supporting Research Charles Davison Akademii a nauk SSSR. Akademii a nauk SSSR. Emile Duclaux Akademii a nauk SSSR. Canada. Health and Welfare Canada Robert Clifton Duncan University of California, Berkeley. College of Chemistry Atmospheric Radiation Atmospheric Radiation Radiative Transfer in a Cloudy Atmosphere Encyclopedia of Atmospheric Sciences The Federal Plan for Meteorological Services and Supporting Research Encyclopedia of Atmospheric Sciences Nuclear Science Abstracts ...Note on M.Ph.Plantamour's Observations by Means of Levels on the Periodic Movements of the Ground at Sècheron, Near Geneva Doklady Proceedings of the Academy of Sciences of the USSR. The London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science Nuclear Science Abstracts Atmospheric Actinometry and the Actinic Constitution of the Atmosphere Proceedings Scientific and Technical Aerospace Reports Journal of Geophysical Research Annual Report Dynamics of Atmospheric Entry Scientific Papers, Dept. of Chemistry and Chemical Engineering Zeitschrift Für Naturforschung James A. Coakley Jr. James A. Coakley Jr. R. E. Samuelson Gerald R. North United States. Office of Federal Coordinator for Meteorological Services and Supporting Research Charles Davison Akademii a nauk SSSR. Akademii a nauk SSSR. Emile Duclaux Akademii a nauk SSSR. Canada. Health and Welfare Canada Robert Clifton Duncan University of California, Berkeley. College of Chemistry

this textbook is a first look at radiative transfer in planetary atmospheres with a particular focus on the earth's atmosphere and climate it covers the basics of the radiative transfer of sunlight treating absorption and scattering and the transfer of the thermal infrared the examples included show how the solutions of the radiative transfer equation are used to evaluate changes in the earth's energy budget due to changes in atmospheric composition how these changes lead to climate change and also how remote sensing can be used to probe the thermal structure and composition of planetary atmospheres the examples motivate students by leading them to a better understanding of and appreciation for the computer generated numerical results aimed at upper division undergraduates and beginning graduate

students in physics and atmospheric sciences the book is designed to cover the essence of the material in a 10 week course while the material in the optional sections will facilitate its use at the more leisurely pace and in depth focus of a semester course

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the equation of radiative transfer in the context of a partially thermally emitting partially anisotropically scattering plane parallel cloudy atmosphere is derived the derivation allows an exact interpretation of the auxiliary quantities in the equation of transfer in terms of the mie scattering parameters explicit solutions are given the method of discrete ordinates in accordance with Chandrasekhar's procedure and extended to include thermal emission at infrared wavelengths solutions of this type restricted to plane parallel layers bounded on both sides by a vacuum and characteristic of phase function for single scattering independent of optical depth are referred to as solutions to the restricted problem to extend the treatment to the general problem a procedure wherein layers with different scattering properties are combined is developed in terms of the restricted solutions two explicit examples are worked out such quantities as the angular distribution of outgoing radiation and the net outgoing flux are consequences of these solutions

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