



Photon-Vegetation Interactions

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Condition: New. Publisher/Verlag: Springer, Berlin | Applications in Optical Remote Sensing and Plant Ecology | Photon-Vegetation Interactions deals with the interaction of electromagnetic radiation with vegetation canopies. The approach to the various aspects is mainly theoretical and consequently the subject is being treated as a special branch of mathematical physics. A major emphasis is on the development of theoretical methods for determining the reflection function of vegetation canopies in optical remote sensing. Furthermore, the coupling of the radiative transfer theory with leaf photosynthesis to evaluate the productivity of vegetation canopies is treated as well as the theory of photon transport in phototropic and other biological media. | 1 Introduction.- 2 Fundamental Equations of Radiative Transfer in Leaf Canopies, and Iterative Methods for Their Solution.- 1 Boundary Problem for the Transfer Equation.- 2 Separation of First-Order Scattering.- 3 Iterative Methods.- 4 Concluding Remarks.- Appendix 1 Solvability of the Transfer Equation in the Plant Canopy.- Appendix 2 Expansion of the Solution in Cosine Series.- References.- 3 Discrete Ordinates Method for Photon Transport in Leaf Canopies.- 1 Introduction.- 2 The Leaf Canopy Transport Problem.- 3 Angular Approximations.- 4 Solution of the Discrete Ordinates Equations.- 5 Convergence Acceleration.- 6 Convergence Criteria.- 7 Numerical Errors.-...

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