Monte Carlo Method for Solving Inverse Problems of Radiation Transfer (Inverse and Ill-Posed Problems)

V. S. Antyufeev

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This volume in the "Inverse and Ill-Posed Problems Series" deals with inverse problems of radiation transfer. In particular, the following problems are considered: atmosphere optics; radiation propagation in plant canopy; and tomography in scattering fields. The Monte Carlo method is very well suited for solving the major difficulty in these problems: computing the multi-scattered radiation intensity. Since this method often uses much computer time to obtain accuracy in the computing, the author has developed new, effective Monte Carlo methods to compute the field of scattered radiation. To increase the accuracy of parameter identification, a regularization procedure may be used. However, the standard procedure of smooth regularization cannot be applied, because the functions to be retrieved are not smooth. A new regularization procedure, using statistical information of the required functions has, therefore, been developed as well. Examples of solving the above mentioned inverse problems are given in this book, including theoretical as well as numerical results. Therefore, this book should be of great value to researchers in the field of radiation transfer, optical parameters, inverse problems, and Monte Carlo methods.

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