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Advanced Numerical Methods for Complex Environmental Models

NEEDS AND AVAILABILITY

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Bentham e Books

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About the ebook

This monograph thoroughly describes mathematical methods useful for various situations in environmental modeling. Chapters are written by well-known specialists making this book a handy reference for researchers, university teachers and students working and studying in the areas of air pollution, meteorology, applied mathematics and computer science

Contents

▶ Treatment of Some Classes of PDEs and ODEs Part A: Complex Numerical Atmospheric Environmental Models - Overall Description and Applications

▶ Finite-Difference Methods for Extremely Anisotropic Diffusion

▶ Treatment of the Chemical Reactions in an Air Pollution Model

▶ Introduction of Splitting Procedures Part A: Implementation of Splitting Procedures Majorization and Generalized Entropies

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▶ Handling of Some Classes of Inverse Problems Part A: Adjoint Methods and their Application in Earth Sciences

▶ Sensitivity Analysis in Nonlinear Variational Data Assimilation: Theoretical Aspects and Applications

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