Numerical Solutions of Three Classes of Nonlinear Parabolic Integro-Differential Equations

Description: This book describes three classes of nonlinear partial integro-differential equations. These models arise in electromagnetic diffusion processes and heat flow in materials with memory. Mathematical modeling of these processes is briefly described in the first chapter of the book. Investigations of the described equations include theoretical as well as approximation properties. Qualitative and quantitative properties of solutions of initial-boundary value problems are performed thereafter. All statements are given with easy understandable proofs. For approximate solution of problems different varieties of numerical methods are investigated. Comparison analyses of those methods are carried out. For theoretical results the corresponding graphical illustrations are included in the book. At the end of each chapter topical bibliographies are provided.

- Investigations of the described equations include theoretical as well as approximation properties
- Detailed references enable further independent study
- Easily understandable proofs describe real-world processes with mathematical rigor

Contents:

Introduction
Mathematical Modeling
Approximate Solutions of the Integro-Differential Models
Numerical Realization of the Discrete Analogue for Models I II III

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