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Time Dependent Problems And Difference Methods

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Initial-Boundary-Value Problems and Flow Around Bodies You-lan Zhu, Xi-chang Zhong, Bing-mu Chen, Zuo-min Zhang, 2013-06-29 Since the appearance of computers numerical methods for discontinuous solutions of quasi linear hyperbolic systems of partial differential equations have been among the most important research subjects in numerical analysis The authors have developed a new difference method named the singularity separating method for quasi linear hyperbolic systems of partial differential equations Its most important feature is that it possesses a high accuracy even for problems with singularities such as shocks contact discontinuities rarefaction waves and detonations Besides the thorough description of the method itself its mathematical foundation stability convergence theory of difference schemes for initial boundary value hyperbolic problems and its application to supersonic flow around bodies are discussed Further the method of lines and its application to blunt body problems and conical flow problems are described in detail This book should soon be an important working basis for both graduate students and researchers in the field of partial differential equations as well as in mathematical physics

Computational Partial Differential Equations Hans P. Langtangen, 2012-12-06 The second edition features lots of improvements and new material The most significant additions include finite difference methods and implementations for a 1D time dependent heat equation Chapter 1 7 6 a solver for vibration of elastic structures Chapter 5 1 6 a step by step instruction of how to develop and test Diffpack programs for a physical application Chapters 3 6 and 3 13 construction of non trivial grids using super elements Chapters 3 5 4 3 6 4 and 3 13 4 additional material on local mesh refinements Chapter 3 7 coupling of Diffpack with other types of software Appendix B 3 high level programming offinite difference solvers utilizing the new stencil finite difference operator concept in Diffpack Appendix D 8 Many of the examples projects and exercises from the first edition have been revised and improved Some new exercises and projects have also been added A hopefully very useful new feature is the compact overview of all the program examples in the book and the associated software files presented in Chapter 1 2 Errors have been corrected many explanations have been extended and the text has been upgraded to be compatible with Diffpack version 4 0 The major difficulty when developing programs for numerical solution of partial differential equations is to debug and verify the implementation This requires an interplay between understanding the mathematical model the involved numerics and the programming tools

The Finite Element Method A. J. Davies, 2011-09-08 An introduction to the application of the finite element method to the solution of boundary and initial value problems posed in terms of partial differential equations Contains worked examples throughout and each chapter has a set of exercises with detailed solutions

The Theory of Difference Schemes Alexander A. Samarskii, 2001-03-29 The Theory of Difference Schemes emphasizes solutions to boundary value problems through multiple difference schemes It addresses the construction of approximate numerical methods and computer algorithms for solving mathematical physics problems The book also develops mathematical models for obtaining desired solutions in minimal time using direct or iterative difference equations Mathematical Reviews said it is well written and an excellent book with a

wealth of mathematical material and techniques *Partial Differential Equations of Applied Mathematics* Erich Zauderer, 2011-10-24 This new edition features the latest tools for modeling characterizing and solving partial differential equations The Third Edition of this classic text offers a comprehensive guide to modeling characterizing and solving partial differential equations PDEs The author provides all the theory and tools necessary to solve problems via exact approximate and numerical methods The Third Edition retains all the hallmarks of its previous editions including an emphasis on practical applications clear writing style and logical organization and extensive use of real world examples Among the new and revised material the book features A new section at the end of each original chapter exhibiting the use of specially constructed Maple procedures that solve PDEs via many of the methods presented in the chapters The results can be evaluated numerically or displayed graphically Two new chapters that present finite difference and finite element methods for the solution of PDEs Newly constructed Maple procedures are provided and used to carry out each of these methods All the numerical results can be displayed graphically A related FTP site that includes all the Maple code used in the text New exercises in each chapter and answers to many of the exercises are provided via the FTP site A supplementary Instructor s Solutions Manual is available The book begins with a demonstration of how the three basic types of equations parabolic hyperbolic and elliptic can be derived from random walk models It then covers an exceptionally broad range of topics including questions of stability analysis of singularities transform methods Green s functions and perturbation and asymptotic treatments Approximation methods for simplifying complicated problems and solutions are described and linear and nonlinear problems not easily solved by standard methods are examined in depth Examples from the fields of engineering and physical sciences are used liberally throughout the text to help illustrate how theory and techniques are applied to actual problems With its extensive use of examples and exercises this text is recommended for advanced undergraduates and graduate students in engineering science and applied mathematics as well as professionals in any of these fields It is possible to use the text as in the past without use of the new Maple material **Techniques in Mathematical Modelling** Gautami Devar, 2025-02-20

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