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most of the methods studied but also emphasizes the practical aspects involved in implementing the methods students using this book will actually see and write programs fortran or matlab for solving ordinary and partial differential equations using both finite differences and finite elements in addition they will be able to solve very difficult partial differential equations using the software pde2d presented in appendix a pde2d solves very general steady state time dependent and eigenvalue pde systems in 1d intervals general 2d regions and a wide range of simple 3d regions contents direct solution of linear systems initial value ordinary differential equations the initial value diffusion problem the initial value transport and wave problems boundary value problem the finite element methods appendix a solving pdes with pde2d appendix b the fourier stability method appendix c matlab programs appendix d answers to selected exercises readership undergraduate graduate students and researchers key features the discussion of stability absolute stability and stiffness in chapter 1 is clearer than in other texts students will actually learn to write programs solving a range of simple pdes using the finite element method in chapter 5 in appendix a students will be able to solve quite difficult pdes using the author s software package pde2d a free version is available which solves small to moderate sized problems keywords differential equations partial differential equations finite element method finite difference method computational science numerical analysis reviews this book is very well written and it is relatively easy to read the presentation is clear and straightforward but quite rigorous this book is suitable for a course on the numerical solution of odes and pdes problems designed for senior level undergraduate or beginning level graduate students the numerical techniques for solving problems presented in the book may also be useful for experienced 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