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TECHNICAL REPORT ARCCB-TR-88017

**AN ADAPTIVE METHOD WITH MESH MOVING
AND LOCAL MESH REFINEMENT FOR TIME-
DEPENDENT PARTIAL DIFFERENTIAL EQUATIONS**

**DAVID C. ARNEY
JOSEPH E. FLAHERTY**

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An Adaptive Mesh Moving And Local Refinement Method For Time Dependent Partial Differential Equations

Weizhang Huang, Robert D. Russell



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An adaptive mesh moving and local refinement method for time-dependent partial differential equations David C. Arney, 1987 An Adaptive Mesh-Moving and Local Refinement Method for Time-Dependent Partial Differential Equations, 1990

We discuss mesh moving static mesh regeneration and local mesh refinement algorithms that can be used with a finite difference or finite element scheme to solve initial boundary value problems for vector systems of time dependent partial differential equations in two space dimensions and time A coarse based mesh of quadrilateral cells is moved by an algebraic mesh movement function so as to follow and isolate spatially distinct phenomena The local mesh refinement method recursively divides the time step and spatial cells of the moving base mesh in regions where error indicators are high until a prescribed tolerance is satisfied The static mesh regeneration procedure is used to create a new base mesh when the existing one becomes too distorted The adaptive methods have been combined with a MacCormack finite difference scheme for hyperbolic systems and an error indicator based upon estimates of the local discretization error obtained by Richardson extrapolation Results are presented for several computational examples **Transactions of the**

Fourth Army Conference on Applied Mathematics and Computing, 1987 **Modeling, Mesh Generation, and**

Adaptive Numerical Methods for Partial Differential Equations Ivo Babuska, Joseph E. Flaherty, William D.

Henshaw, John E. Hopcroft, Joseph E. Oliger, Tayfun Tezduyar, 2012-12-06 With considerations such as complex dimensional geometries and nonlinearity the computational solution of partial differential systems has become so involved that it is important to automate decisions that have been normally left to the individual This book covers such decisions 1 mesh generation with links to the software generating the domain geometry 2 solution accuracy and reliability with mesh selection linked to solution generation This book is suited for mathematicians computer scientists and engineers and is intended to encourage interdisciplinary interaction between the diverse groups **Transactions of the ... Army Conference on**

Applied Mathematics and Computing, 1989 **Adaptive Moving Mesh Methods** Weizhang Huang, Robert D.

Russell, 2010-10-26 Moving mesh methods are an effective mesh adaptation based approach for the numerical solution of mathematical models of physical phenomena Currently there exist three main strategies for mesh adaptation namely to use mesh subdivision local high order approximation sometimes combined with mesh subdivision and mesh movement The latter type of adaptive mesh method has been less well studied both computationally and theoretically This book is about adaptive mesh generation and moving mesh methods for the numerical solution of time dependent partial differential equations It presents a general framework and theory for adaptive mesh generation and gives a comprehensive treatment of moving mesh methods and their basic components along with their application for a number of nontrivial physical problems Many explicit examples with computed figures illustrate the various methods and the effects of parameter choices for those methods The partial differential equations considered are mainly parabolic diffusion dominated rather than convection

dominated The extensive bibliography provides an invaluable guide to the literature in this field Each chapter contains useful exercises Graduate students researchers and practitioners working in this area will benefit from this book Weizhang Huang is a Professor in the Department of Mathematics at the University of Kansas Robert D Russell is a Professor in the Department of Mathematics at Simon Fraser University Handbook of Grid Generation Joe F. Thompson, Bharat K. Soni, Nigel P. Weatherill, 1998-12-29 Handbook of Grid Generation addresses the use of grids meshes in the numerical solutions of partial differential equations by finite elements finite volume finite differences and boundary elements Four parts divide the chapters structured grids unstructured grids surface definition and adaption quality An introduction to each section provides a roadmap through the material This handbook covers Fundamental concepts and approaches Grid generation process Essential mathematical elements from tensor analysis and differential geometry particularly relevant to curves and surfaces Cells of any shape Cartesian structured curvilinear coordinates unstructured tetrahedra unstructured hexahedra or various combinations Separate grids overlaid on one another communicating data through interpolation Moving boundaries and internal interfaces in the field Resolving gradients and controlling solution error Grid generation codes both commercial and freeware as well as representative and illustrative grid configurations Handbook of Grid Generation contains 37 chapters as well as contributions from more than 100 experts from around the world comprehensively evaluating this expanding field and providing a fundamental orientation for practitioners Transactions of the Second Army Conference on Applied Mathematics and Computing, 1986 **Adaptive Mesh Methods and Software for Time-dependent Partial Differential Equations** Shengtai Li, 1998 **Adaptive Methods for Partial Differential Equations** Ivo Babushka, Jagdish Chandra, Joseph E. Flaherty, 1989-01-01 Proceedings of the Workshop on Adaptive Computational Methods for Partial Differential Equations Rensselaer Polytechnic Institute October 13 15 1988 T p verso

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