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Grid Generation and Adaptive Algorithms

By -

Springer. Paperback. Condition: New. 189 pages. Dimensions: 9.2in. x 6.1in. x 0.5in. This IMA Volume in Mathematics and its Applications GRID GENERATION AND ADAPTIVE ALGORITHMS is based on the proceedings of a workshop with the same title. The workshop was an integral part of the 1996-97 IMA program on MATHEMATICS IN HIGH-PERFORMANCE COMPUTING. I would like to thank Marshall Bern (Xerox, Palo Alto Research Center), Joseph E. Flaherty (Department of Computer Science, Rensselaer Polytechnic Institute), and Mitchell Luskin (School of Mathematics, University of Minnesota), for their excellent work as organizers of the meeting and for editing the proceedings. I also take this opportunity to thank the National Science Foundation (NSF), Department of Energy (DOE), and the Army Research Office (ARO), whose financial support made the workshop possible. Willard Miller, Jr., Professor and Director of PREFACE Scientific and engineering computation has become so complex that traditional numerical computation on uniform meshes is generally not possible or too expensive. Mesh generation must reflect both the domain geometry and the expected solution characteristics. Meshes should, furthermore, be related to the solution through computable estimates of discretization errors. This, suggests an automatic and adaptive process where...



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