

MATRIX-BASED MULTIGRID:

Theory and Applications
Second Edition

YAIR SHAPIRA

Matrixbased Multigrid Theory And Applications

Yair Shapira



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Salgado, Steven M. Wise, Calvin Wong, 2025-12-04 This book introduces the theory and application of multigrid methods for the fast numerical solution of linear and weakly nonlinear elliptic PDE No previous exposure to numerical discretization methods is assumed All that is required of the reader is curiosity and some basic knowledge of matrix theory and the theory of finite dimensional vector spaces We use an axiomatic mostly matrix based approach in the book both as a way of presenting the theory in a natural and simple setting and as a means for translating the theory into practical codes We deviate a little from the matrix based approach in the presentation of the framework for nonlinear problems in the latter part of the book That nonlinear analysis based on subspace decompositions represents an area of current research In fact the book takes the reader all the way from the basics and simple implementation issues to the front lines of multigrid research Coding the multigrid method is notoriously difficult The current book which contains several sample codes in the finite element and cell centered finite difference frameworks will train the interested reader in the construction of sophisticated efficient multigrid codes using the simple but powerful MATLAB programming environment Journal of Tribology ,2000

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