Computational Spectral Methods

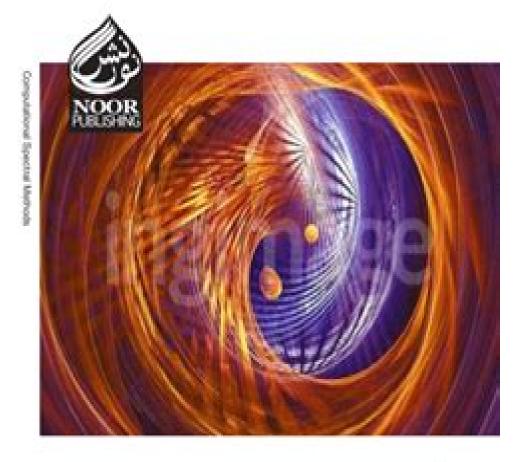
Spectral methods have become increasingly popular in recent here high accuracy is desired for complicated ns. This monograph discusses the spectral methods and fluid mechanics. A fast and accurate spectral absorbten is presented for the solution of the 1-D diffusion. equation. The mathematical treatment in this algorithm leads to a system of O.D.E's that has well-known simple analytical solution. The same spectral approach is used to solve the 2-D Poisson's equation spectrally. The proposed algorithm leads to a nonconventional system of linear equations that opposite to what is known. This system is solved using a deduced block matrix technique. Finally, the author presents an important application in fluid mechanics through introducing the spectral solution of invisced incompressible fluid flow using vorticity: stream function formulation. The numerical results in this minograph are very accurate and identical to the analytical ones.



Abdallah H Mostafa, Ph.D.: Studied Aeronautical engineering at Cairo university. Ass. prof. of Engineering Mathematics at Higher Technological Institute, Egypt, Currently, at Umry-Elousa. university, Saudi Arabia. Fields of interest are: Stochastic Differential Equations, Computational Specinal Methods, Nonlinear Partial Differential Equation.







Abdallah Mostafa

Computational Spectral Methods

Basics, Concepts, Applications

Spectral Methods And Their Applications

Camilla Rothe

Spectral Methods And Their Applications:

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