Numerical Solution of Partial Differential Equations by the Finite Element Method



Numerical Solution of Partial Differential Equations by the Finite Element Method (Dover Books on Mathematics)

By Claes Johnson, Mathematics



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An accessible introduction to the finite element method for solving numeric problems, this volume offers the keys to an important technique in computational mathematics. Suitable for advanced undergraduate and graduate courses, it outlines clear connections with applications and considers numerous examples from a variety of science- and engineering-related specialties. This text encompasses all varieties of the basic linear partial differential equations, including elliptic, parabolic and hyperbolic problems, as well as stationary and time-dependent problems. Additional topics include finite element methods for integral equations, an introduction to nonlinear problems, and considerations of unique developments of finite element techniques related to parabolic problems, including methods for automatic time step control. The relevant mathematics are expressed in non-technical terms whenever possible, in the interests of keeping the treatment accessible to a majority of students.

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About the Author

Claes Johnson is Professor of Applied Mathematics at the Royal Institute of Technology, Stockholm.

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