Finite Element Method (Numerical Methods (Wiley-Iste))

By Gouri Dhatt, Emmanuel Lefran?ois, Gilbert Touzot

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This book offers an in-depth presentation of the finite element method, aimed at engineers, students and researchers in applied sciences.

The description of the method is presented in such a way as to be usable in any domain of application. The level of mathematical expertise required is limited to differential and matrix calculus.

The various stages necessary for the implementation of the method are clearly identified, with a chapter given over to each one: approximation, construction of the integral forms, matrix organization, solution of the algebraic systems and architecture of programs. The final chapter lays the foundations for a general program, written in Matlab, which can be used to solve problems that are linear or otherwise, stationary or transient, presented in relation to applications stemming from the domains of structural mechanics, fluid mechanics and heat transfer.

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Editorial Review

About the Author

Gouri Dhatt obtained his D.SC in 1968 from Laval University on Numerical Modelling. Since 1968 he has been working as Professor of Engineering at Laval University Quebec, University of Technology Compiegne and INSA Rouen. He is co-author of various books on Finite Elements and its applications.

Emmanuel Lefrançois is currently an associate professor at the University of Technology of Compiègne (UTC). Areas of expertise concern computer sciences for multiphysics applications and essentially for fluid-structure interactions. Teaching areas concern the computer sciences (finite element) and fluid mechanics.

Gilbert Touzot is Emeritus Professor. Since 1967 he has been working in computational méchanics at Université du Québec, Université de Compiègne and National Institute of Applied Sciences Rouen. He is presently président of the french national digital University of Technology - UNIT.

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