Applied Finite Element Analysis

By G. Ramamurty

I.K. International Publishing House Pvt. Ltd., 2010. Paperback. Book Condition: New. Second Edition. 18cm x 24cm. This book is intended for presenting the basic concepts of Finite Element Analysis applied to several engineering applications. Salient Features: 1. Covers several modules of elasticity, heat conduction, eigenvalue and fluid flow analysis which are necessary for a student of Mechanical Engineering. 2. Finite Element formulations have been presented using both global and natural coordinates. It is important for providing smooth transition form formulation in global coordinates to natural coordinates. 3. Special focus has been given to heat conduction problems and fluid flows which are not sufficiently discussed in other textbooks. 4. Important factors affecting the formulation have been included as Miscellaneous Topics. 5. Several examples have been worked out in order to highlight the applications of Finite Element Analysis. Apart from moderately revising the whole text three new chapters ôDynamic Analysisö, ôNon-linear Analysisö, ôBending of Thin Platesö, three appendices and short questions and answers have been added in the present edition to make it more useful.".

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