Introduction to Finite Element, Boundary Element, and Meshless Methods: With Applications to Heat Transfer and Fluid Flow

Darrell W. Pepper, Alain J. Kassab, Eduardo A. Divo

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When students once master the concepts of the finite element method (and meshing), it's not long before they begin to look at other numerical techniques and applications, especially the boundary element and meshless methods (since a mesh is not required). The expert authors of this book provide a simple explanation of these three powerful numerical schemes and show how they all fall under the umbrella of the more universal method of weighted residuals. The book is structured in four sections. The first introductory section provides the method of weighted residuals development of finite differences, finite volume, finite element, boundary element, and meshless methods along with 1D examples of each method. The following three sections of the book present a more detailed development of the finite element method, then progress through the boundary element method, and end with meshless methods. Each section serves as a stand-alone description, but it is apparent how each conveniently leads to the other techniques. It is recommended that the reader begin with the finite element method, as this serves as the primary basis for defining the method of weighted residuals. Computer files in both MathCad and MATLAB are available from the fbm.centecorp.com website, along with example data files.

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Transfer and Fluid Flow can be one of your beginning books that are good idea. Most of us recommend that straight away because this guide has good vocabulary which could increase your knowledge in terminology, easy to understand, bit entertaining but nevertheless delivering the information. The author giving his/her effort that will put every word into enjoyment arrangement in writing Introduction to Finite Element, Boundary Element, and Meshless Methods: With Applications to Heat Transfer and Fluid Flow nevertheless doesn't forget the main place, giving the reader the hottest along with based confirm resource information that maybe you can be considered one of it. This great information can drawn you into brand new stage of crucial pondering.

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