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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	A Practical Guide to Reliable Finite Element Modelling; Contents; Preface; 1 Introduction; 2 Overview of Static Finite Element Analysis; 3 Overview of Dynamic Analysis; 4 What's Energy Got to Do with It?; 5 Preliminary Review of Errors and Error Control; 6 Discretisation: Elements and Meshes or Some Ways to Avoid Generated Error*; 7 Idealisation Error Types and Sources; 8 Error Control; 9 Error-Controlled Analyses; 10 FEMEC Walkthrough Example; Index
Sommario/riassunto	Many books have been written about the finite element method; little however has been written about procedures that assist a practicing engineer in undertaking an analysis in such a way that errors and uncertainties can be controlled. In A Practical Guide to Reliable Finite Element Modelling, Morris addresses this important area. His book begins by introducing the reader to finite element analysis (FEA), covering the fundamental principles of the method, whilst also outlining the potential problems involved. He then establishes consistent methods for carrying out analyses and obtaining accurat

