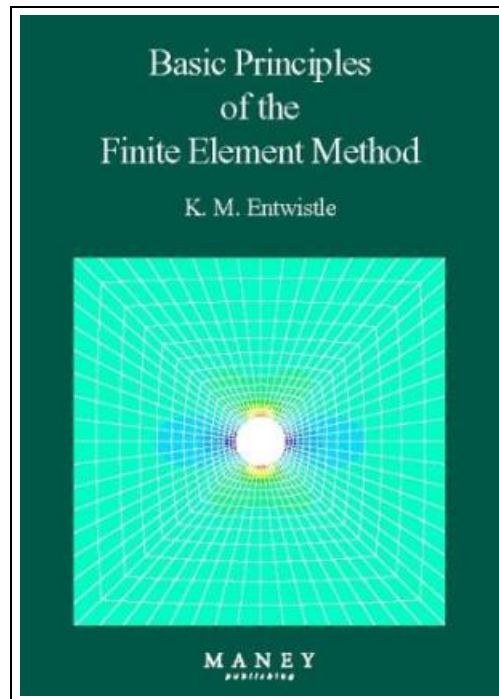


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Maney Publishing, United Kingdom, 2001. Paperback. Condition: New. Revised ed.. Language: English . Brand New Book. Provides an introductory text which lays out the basic theory of the finite element method in a form that will be comprehensible to engineering and materials science students Although this book was written with materials scientists in mind, it will prove useful to all those interested in learning the fundamentals of the finite element method. The method is now widely used in research in materials science and technology. For example, it is the basis for the determination of the stress distribution in loaded specimens used in deformation and fracture studies. It is used to predict the mechanical behaviour of composite and of cellular solids and it is used to analyse materials processing of metals and polymers. Materials science researchers use one of the many available commercial finite element packages to model problems in these areas. These materials scientists and technologists are not always well informed about the principles of the analytical methods that these packages use. One reason for this is that they find the existing texts difficult to read. There is an extensive list of finite element books written mostly for engineers or mathematicians. In them the authors make assumptions that the reader has a facility with matrix algebra, has a grounding in applied mechanics and has an awareness of energy principles that do not feature prominently in undergraduate materials science courses and, in consequence, are rarely the stock in trade of materials science researchers or technologists. The objective of this book is to provide an introductory text which lays out the basic theory of the finite element method in a form that will be comprehensible to materials scientists. It presents the basic ideas in a sequential and measured fashion, avoiding the use of...

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