



Practical Stress Analysis with Finite Elements

Bryan J Mac Donald

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Practical Stress Analysis with Finite Elements is an ideal introductory text for newcomers to finite element analysis who wish to learn how to use FEA. Unlike many other books which claim to be at an introductory level, this book does not weigh the reader down with theory but rather provides the minimum amount of theory needed to understand how to practically perform an analysis using a finite element analysis software package. Newcomers to FEA generally want to learn how to apply FEA to their particular problem and consequently the emphasis of this book is on practical FE procedures. The information in this book is an invaluable guide and reference for both undergraduate and postgraduate engineering students and for practising engineers. * Emphasises practical finite element analysis with commercially available finite element software packages. * Presented in a generic format that is not specific to any particular finite element software but clearly shows the methodology required for successful FEA. * Focused entirely on structural stress analysis. * Offers specific advice on the type of element to use, the best material model to use, the type of analysis to use and which type of results to look for. * Provides specific, no nonsense advice on how to fix problems in the analysis. * Contains over 300 illustrations * Provides 9 detailed case studies which specifically show you how to perform various types of analyses. Are you tired of picking up a book that claims to be on "practical" finite element analysis only to find that it is full of the same old theory rehashed and contains no advice to help you plan your analysis? If so then this book is for you! The emphasis of this book is on doing FEA, not writing a FE code. A method is provided to help you plan your analysis, a chapter is devoted to each choice you have to make when building your model giving you clear and specific advice. Finally nine case studies are provided which illustrate the points made in the main text and take you slowly through your first finite element analyses. The book is written in such a way that it is not specific to any particular FE software so it doesn't matter which FE software you use, this book can help you!

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