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Simple Deformation and Vibration by Fea

By Gunnar Backstrom

GB Publishing, United States, 2006. Paperback. Book Condition: New. 230 x 156 mm. Language: English . Brand New Book ***** Print on Demand *****.Simple Fields of Physics by FEA Understanding Elasticity the Easy Way Elastic deformation is of enormous importance in mechanical engineering and has long been a prominent item in technical education. The theory profits from major developments during the 1800s. Stress and strain do not transform as directly as vectors, and the subject is somewhat counter-intuitive. A century ago one had to resort to graphical devices, such as the Mohr circle, to handle elasticity concepts. Most textbooks still use this antiquated technique. With the advent of the PC it became possible to transform stress and strain analytically and to plot results in informative ways. In addition, elastic deformation could then be studied by means of finite element analysis, which dramatically extended the range of applications. The present volume contains other enhancements with respect to ordinary textbooks. Problems of torsion and warping are solved by PDEs, even for hollow shafts. There is also a treatise on thermoelastic deformation. Many examples are in three dimensions. Finally, wave motion is studied by a slight extension of the PDE formalism. The latter...



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Reviews

It is simple in read easier to understand. I am quite late in start reading this one, but better then never. Its been designed in an exceptionally easy way in fact it is just following i finished reading through this publication where basically transformed me, alter the way i really believe.

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This book is really gripping and fascinating. Of course, it is actually play, nonetheless an interesting and amazing literature. You will not feel monotony at anytime of the time (that's what catalogs are for about if you request me).

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