

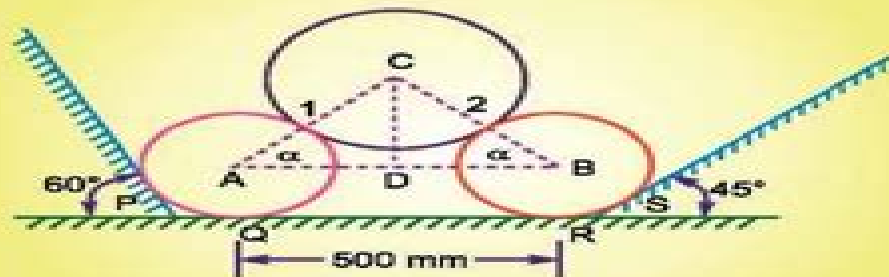
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Indian National Bibliography B. S. Kesavan, 2003 **Applied Mechanics Reviews**, 1979 **Finite Element Analysis** S. S. Bhavikatti, 2005 With the author's experience of teaching the courses on finite element analysis to undergraduate and postgraduate students for several years, the author felt the need for writing this book. The concept of finite element analysis, finding properties of various elements and assembling stiffness equation is developed systematically by splitting the subject into various chapters. The method is made clear by solving many problems by hand calculations. The application of finite element method to plates, shells and nonlinear analysis is presented after listing some of the commercially available finite element analysis packages. The structure of a finite element program and the desired features of commercial packages are discussed.

Choice, 1995 **Solid Mechanics (For Anna University)** Bhavikatti S.S., Throughout the book emphasis has been laid on developing the concepts, clarifying the units to be used in final equations and neatly presenting solutions for the numerical problems. The features of this one-stop book will help the students to prepare themselves for taking up the design papers taught in higher classes.

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The Cumulative Book Index, 1996 A world list of books in the English language

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Vibration of Functionally Graded Beams and Plates Snehashish Chakraverty,Karan Kumar Pradhan,2016-02-11 Vibration of Functionally Graded Beams and Plates uses numerically efficient computational techniques to analyze vibration problems associated with FG beams and plates Introductory material on FG materials and structural members as well as a range of vibration and shear deformation theories are discussed providing a valuable summary of these broader themes The latest research and analysis of vibration in FG materials is presented in an application oriented manner linking the research to its importance in fields such as aerospace nuclear power and automotive engineering The book also features research on the complicating effects of thermal environments piezoelectricity and elastic foundations The innovative computational procedures and simulation results are shown in full throughout providing a uniquely valuable resource for users of numerical modeling software This book is essential reading for any researcher or practitioner interested in FG materials or the design of technology for the nuclear power aerospace and automotive

industries Defines the basic preliminaries of vibration and FG materials Introduces historical background and recent developments in functionally graded materials with references for further reading Shows computational procedures with simulation results Includes many easy to understand example problems Presents various analytical and numerical procedures for each solution **Indian Science Abstracts** ,1996-04 Computers in Engineering 1989: Computers in education, thermo-fluids-energy education, finite elements, applied computer methods in mechanics, numerical modeling, computational fluid dynamics, combustion and heat transfer, simulation of energy system and process control ,1989 **Books in Print Supplement** ,1994

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