



Matrix Methods of Structural Analysis: Theory and Problems

C. Natarajan

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With the proliferation of computers and mobile computing, there is a need for students to get an idea on computer-oriented structural analysis and this is where stiffness methods are very important. Further using stiffness methods, practical problem solving will be very much appreciated if worked examples are available for references. This book tries to fill this void and even though many others are there, this is going to be the ready reckoner for students as well as faculties.

Matrix Methods of Structural Analysis is a highly specialized subject requires an excellent understanding of the fundamentals and special methods of analysis of various structures. This book is a comprehensive presentation of the fundamental aspects of matrix analysis of structures. It reflects many of the problems and queries the students have in understanding the basics of matrix representation and analysis. The text begins with the chapters on basics of matrices and structural systems. After providing the foundation for matrix structural representation, the text moves onto dimensional and behavioral aspects of structural systems to classify into pin-jointed systems, then onto beams and finally three dimensional rigid jointed systems. The text concludes with special techniques in using matrices for structural analysis. Besides, MATLAB codes are given at the end to illustrate interfacing with standard computing tool. A large number of numerical examples are given in each chapter which will make the student to have a complete knowledge over the subject.



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