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~~This book, Structural Analysis-I, is a revised edition of the book Structural Analysis Volume-I, and it covers the basics of structural analysis measurements of deflection, various types of deflections, loads and influence lines, etc. This book is a prequel to my book Structural Analysis-II. Both the volumes together cover the complete course ...~~

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~~Prof Bhavikatti holds an ME degree in Structural Engineering from the University of Roorkee, and a PhD from IIT-Delhi. Also written by S.S. Bhavikatti (View All) Structural Analysis – Vol – 1~~

~~Structural Analysis, or the ‘Theory of Structures’, is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes – Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.~~

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~~Preliminary chapters are supposed to give suitable transition from structural analysis ‘classical methods studied by students in their compulsory courses. Then structure approach to matrix method is dealt so that the students get clear picture of matrix approach. Finally, stiffness matrix method ‘element approach is explained and illustrated so that before developing computer program student will understand what to instruct computer. Finally, a chapter an computer programming preliminaries which will help to develop the computer program and cautious the way of program develop by the others is included.~~

~~With The Authors Experience Of Teaching The Courses On Finite Element Analysis To Undergraduate And Postgraduate Students For Several Years, The Author Felt 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.~~

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~~So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook.A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.~~

