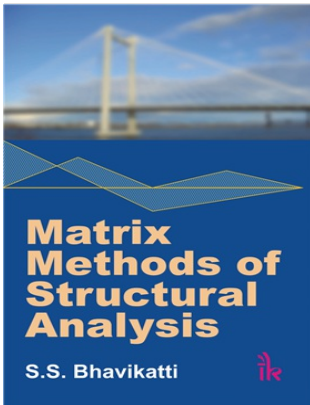


Matrix Methods of Structural Analysis, 1/e

S.S Bhavikatti



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About the Book

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 on computer programming preliminaries which will help to develop the computer program and cautious the way of program develop by the others is included.

Salient Features

Salient Features:

- ▶ Spread in 6 chapters, it deals with consistent deformation and slope deflection methods, flexibility and stiffness matrix methods, element approach, and computer programming preliminaries.
- ▶ Each chapter outlines a brief introduction on the topic explained before elaborating it in detail.
- ▶ Contains an appendix laying the table for fixed end actions due to loads acting on a member.
- ▶ Free body diagrams have been used exhaustively at relevant places in the book.
- ▶ Has a dedicated chapter on computer programming.

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About the Author

S.S Bhavikatti :- Dr. S.S. Bhavikatti studied at BVB College of Engineering and Technology, Hubli for his BE (Civil) degree and graduated from Karnataka University, Dharwad in 1963 sharing first rank with another candidate. The same year he joined Karnataka Regional of Engineering College (presently NITK) Surathkal, as a teacher. He secured M.E. degree in Structural Engineering in 1967 from University of Roorkee, Roorkee (presently IIT Roorkee) under Technical Teachers Training Programme and Ph.D. degree in 1977 from IIT Delhi under Quality Improvement Programme. He served NITK in different capacities like Head of Civil Engineering Department, Chairman, Centre for Continuing Education, Chairman Central Computer Centre and Dean (Administration). From November 2001 to November 2005, he served at SDM College of Engineering and Technology, Dharwad. He then served RYMEC, Bellary as Principal upto September 2007. Presently he is working as Emeritus Professor at BVB College of Engineering and Technology. He has published 61 technical papers and 28 books. He has guided 68 students for M.Tech dissertation and 5 students for Ph.D. He was member of organizing scientific committee of international seminars organized by IASS held at Taegue (South Korea) in 1990, Tokyo (Japan) in 1993 and Taipei (Taiwan) in 1997. He is member of several Indian and International professional bodies and several technical committees appointed by Government of Karnataka.