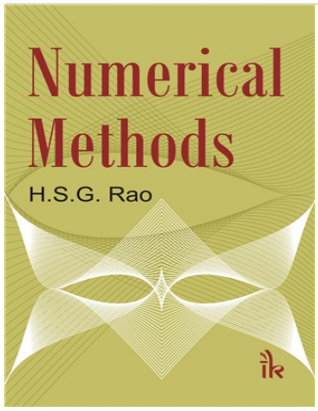
Book Information Sheet



Numerical Methods, 1/e

H.S.G. Rao

2011 | 424 pp | Paperback | ISBN: 9789380578545 | Price: 325.00

About the Book

A number of unique features make this book different from other existing book in the field. Designed for the core course on the subject. This book seeks for provide students with Fundamentals of Numerical Methods. Logical arrangement of topics, clarity of presentation and illustration through maximum examples and exercise aid the student in becoming adept at applying the methods. This book is written keeping in mind undergraduate and postgraduate students of Engineering and Science students of all disciplines.

Salient Features

Salient Features:

- Explains all the important approximation methods for numerical computation of various quantities in different branches of science & engineering.
- Presents 273 problems with detailed solution, and exercises at the end of every topic.
- Proofs of all important theorems and derivations of the methods have been given appropriately in the book.

Table of Contents

- Errors and Approximations
- Fundamental Concepts from the Theory of Equations
- Simultaneous Linear Equations
- Eigenvalues and Eigenvectors
- Finite Differences
- Interpolation
- Numerical Differentiation
- Numerical Integration
- Numerical Solution of Ordinary Differential Equations
- Numerical Solution of Partial Differential Equations

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About the Author

H.S.G. Rao :- is presently serving as Professor and Head at the Department of Mathematics, A.C.S. College of Engineering, Bangalore. He taught several subjects like Numerical Methods, Applied Mathematics, Finite Element Methods, Discrete Mathematical Structures, and Graph Theory for undergraduate and postgraduate classes over 19 years. He has guided many students for M.Phil and Ph.D degrees. Also he has served as visiting professor in NTTF, Bangalore.

He has authored more than 12 books in different areas of engineering fields. He has published several research papers in national and international journals. He has presented many papers in International Conferences. His research interest includes Integration Theory in N-Dimensional Space. He is a member of AICTE, New Delhi.