



# Elements of Numerical Analysis

By Radhey S. Gupta

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Numerical Analysis deals with manipulation of numbers to solve a particular problem. This book discusses in detail the creation, analysis and implementation of algorithms to solve the problems of continuous mathematics. An input is provided in form of numerical data or it is generated as required by the system to solve a mathematical problem. Subsequently this input is processed through arithmetic operations together with logical operations in a systematic manner and output is produced in the form of numbers. Covering the fundamentals of numerical analysis and its applications in one volume, this book offers detailed discussion on relevant topics including difference equations, Fourier series, discrete Fourier transforms and finite element methods. In addition, the important concepts of integral equations, Chebyshev Approximation and Eigen Values of Symmetric Matrices are elaborated in separate chapters. It serves as a textbook for undergraduate students in science and engineering across all major universities in India.

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## Elements of Numerical Analysis By Radhey S. Gupta Bibliography

- Sales Rank: #2723057 in Books
- Published on: 2015-05-14
- Original language: English
- Number of items: 1
- Dimensions: 9.61" h x 1.18" w x 6.69" l, 2.25 pounds
- Binding: Paperback
- 774 pages

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#### About the Author

Radhey S. Gupta is former professor and head in the Department of Mathematics at Indian Institute of Technology, Roorkee. He also served as Director at the Trinity Institute of Higher Education (Guru Gobind Singh Indraprastha University), New Delhi. Gupta was a visiting professor at Asian Institute of Technology, Bangkok and University of Florence, Italy. He has more than thirty-five years of experience in teaching and research in the field of numerical analysis with specialization in moving boundary problems.

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