



Engineering Mathematics, 1/e

H C Taneja

2011	536 pp	Paperback	ISBN: 9789380578422	Price: 475.00
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About the Book

Engineering Mathematics (Volume II), in sequel to Engineering Mathematics (Volume I), has been primarily written for the third and fourth semester students of B.E./B. Tech. level of various engineering colleges.

The text presented here forms a part of my textbooks Advanced Engineering Mathematics (Volume I & II) and Statistical Methods for Engineering & Sciences. The book contains ten chapters covering topics on complex analysis, statistical techniques and numerical techniques. The self-contained text is applications oriented and contains a wide variety of examples, objective type questions and exercises. I hope this book will serve as a valuable text for the readers.

Salient Features

Salient Features:

- ▶ Covers various topics on complex analysis, statistics and probability and numerical methods.
- ▶ Includes about 300 solved problems which are of various grades of difficulty.
- ▶ Has useful appendices on statistical tables, C-program, and flowchart at the end of the book.
- ▶ Contains end-of-the-chapter exercises and objective type questions with answer keys.

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1. Functions of a Complex Variable
2. Complex Integration
3. Taylor Series, Laurent Series and the Residue Theorem
4. Descriptive Statistics, Probability and Distributions
5. Correlation and Regression
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7. Time Series
8. Statistical Quality Control
9. Numerical Methods in General
10. Numerical Methods for Differential Equations Index

About the Author

H C Taneja :- H.C. Taneja is Professor and Head, Department of Applied Mathematics, Delhi Technological University, New Delhi. He has vast experience of teaching both mathematics and statistics at UG and PG level to science & engineering students. He has published a number of research papers in journals of international repute, and also has authored a textbook Statistical Methods for Engineering Students. His research interests include Information Theory, Univalent Functions and Applications of Stochastic Processes.