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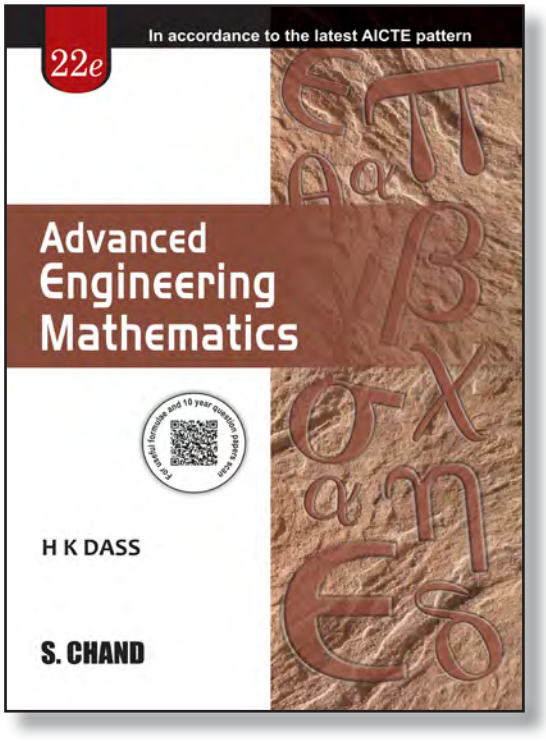


Advanced Engineering Mathematics, 22e

H K Dass

About the Book

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Key Features

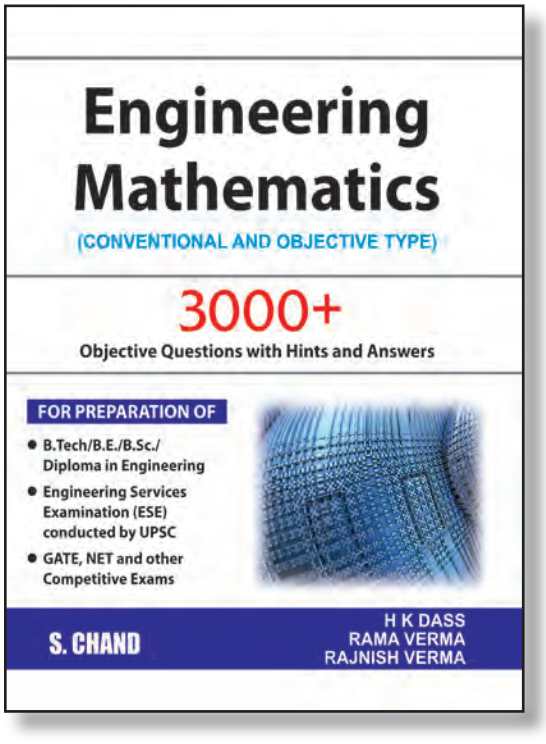
- Two New Chapters -Transformation and Taylor's and Laurent's Series have been included
- Every topic relating to the subject has been provided with ample coverage.
- Close to 1400 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 260 exercise sets and book-end solved question papers provide apt practice of all concepts explained.
- Useful formulae and 10 years question papers have been provided on S. Chand Publishing website which will be helpful for students while preparing for examinations

ISBN: 9789352533831 | Code: 9789352533831 | Price: ₹ 899 | Pages: 1,440 | Size: 6.5" X 9.25" (Paperback)

Contents

H K Dass is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England).

He is also the winner of Secular India Award – 1998.



Engineering Mathematics

H K Dass, Rama Verma & Rajnish Verma

About the Book

Engineering Mathematics (Conventional and Objective Type) completely covers the subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books.

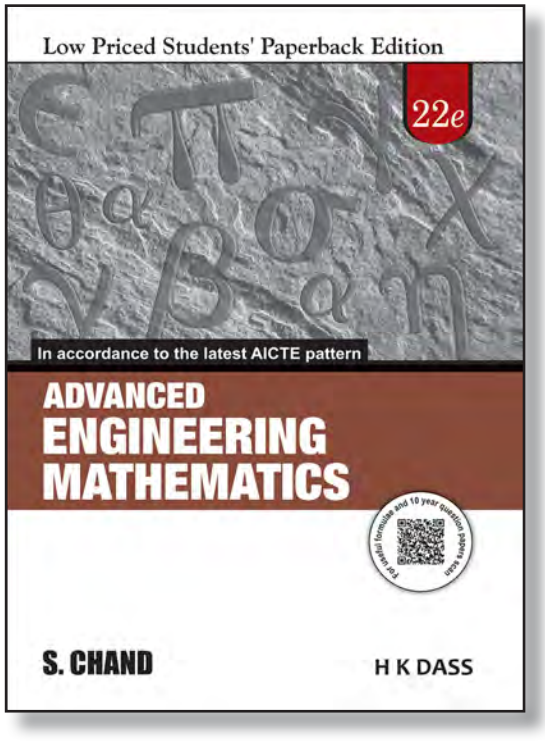
Key Features

- Complete Coverage: For the subject of Engineering Mathematics as per the requirements of AICTE, GATE, IES, IAS etc.
- Pedagogically Strong:
  - More than 300 examples for better grasp of the topics.
  - More than 3200 exercises, questions and objective type questions for better practice.
  - Previous year questions of more than 10 years have been given in the book for students to understand the current and changing trends of various examinations.

ISBN: 9789352836536 | Price: ₹ 650 | Pages: 624 | Size: 8.50" X10.75" (Paperback)

Contents

H K Dass is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England).He is also the winner of Secular India Award – 1998.
Dr. Rama Verma M.Sc. (Gold Medalist), Ph.D., Associate Professor, Mata Sundri College
Rajnish Dass Ph.D.(P), Fellow IETE, MBA, B.E. Electronics Engineering DCE / DTU, Consultant (Retd.) - TCS Ltd., Ex. DGM - CMC Ltd.



Advanced Engineering Mathematics, 22e (LPSPE)

H K Dass

About the Book

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Key Features

- Two New Chapters -Transformation and Taylor's and Laurent's Series have been included
- Every topic relating to the subject has been provided with ample coverage.
- Close to 1400 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 260 exercise sets and book-end solved question papers provide apt practice of all concepts explained.
- Useful formulae and 10 years question papers have been provided on S. Chand Publishing website which will be helpful for students while preparing for examinations

ISBN: 9789352837182 | Price: ₹ 950 | Pages: 1,440 | Size: 6.5" X 9.25" (Paperback)

Contents

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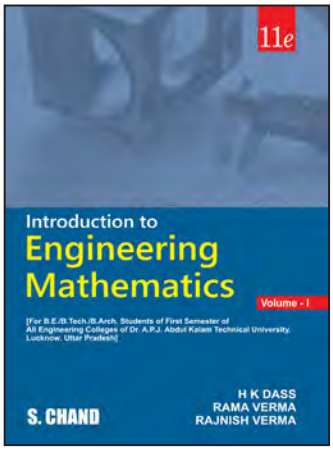
LOW PRICED STUDENTS' PAPERBACK EDITION



Introduction to Engineering Mathematics, Volume-1

New

H K Dass, Rama Verma & Rajnish Verma

About the Book

The book "Introduction to Engineering Mathematics I" has been conceptualized specifically according to the New Syllabus (2022 onwards) of A. P. J. Abdul Kalam Technical University (APJAKTU), Lucknow. It covers important topics such as Inverse of a Matrix, Elementary Transformation, Linear Dependence and Independence of Vectors, Solution of System of Linear Equations, Characteristic Equation, Eigen Values and Eigen Vectors, Successive Differentiation (nth Order Derivatives), Curve Tracing, Euler's Theorem for Homogeneous Functions, Jacobians, Beta, Gamma Functions and Properties, Vector Differentiation, Vector Integration, etc. for sound conceptual understanding of students. Latest Question papers have been solved and included in the book. Also, short questions have been added at the end of each chapter for better preparation of examinations.

Salient Features

- The book, divided in Five units, are sub divided in 27 chapters for an in-depth coverage of the recommended syllabus
- Close to 650 examples in the text illustrate all major topics thereby providing ample support to the theory explain
- Close to 900 questions strengthen the well explained theoretical concepts

ISBN: 9789355016638 | Price: ₹ 525 | Pages: 656 | Size: 6.50" x 9.25" (Paperback)

Contents

Unit 1: Matrices, 1. Inverse of a Matrix, Elementary Transformation, 2. Rank of Matrix, 3. Linear Dependence and Independence of Vectors, 4. Solution of System of Linear Equations, 5. Cayley-Hamilton Theorem and Applications, 6. Characteristic Equation, Eigen Values and Eigen Vectors, 7. Complex Matrices, Hermitian, Skew-Hermitian and Unitary Matrices, 8. Applications to Engineering Problems, Unit 2: Differential Calculus-I, 9. Successive Differentiation (Nth Order Derivatives), 10. Leibnitz Theorem, 11. Curve Tracing, 12. Partial Derivatives, 13. Euler's Theorem for Homogeneous Functions, 14. Total Derivative , Unit 3: Differential Calculus-Ii, 15. Expansion of Functions Taylor's and Maclaurin's Theorems , for Functions of One and Two Variables, 16. Maxima and Minima of Functions of Several Variables, 17. Lagrange's Method of Multipliers,18. Jacobians, 19. Approximation of Errors, Unit 4: Multiple Integration, 20. Double Integral, 21. Triple Integral, 22. Change of Order of Integration, 23. Change of Variables, 24. Beta, Gamma Functions and Properties, 25. Dirichlet's Integral, Applications and Liouville's Extensions of Dirichlet's Integral, Unit 5: Vector Calculus, 26. Vector Differentiation, 27. Vector Integration,

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Dr. Rama Verma M.Sc. (Gold Medalist), Ph.D., Associate Professor, Mata Sundri College
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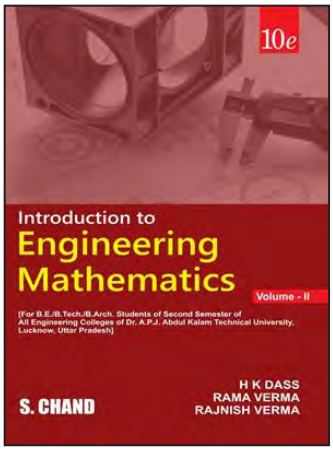

Introduction to Engineering Mathematics, Volume-2

New

H K Dass, Rama Verma & Rajnish Verma

About the Book

The book "Introduction to Engineering Mathematics II" has been conceptualized specifically according to the New Syllabus (2022 onwards) of A. P. J. Abdul Kalam Technical University (APJAKTU), Lucknow. It covers important topics such as Linear Differential Equations of nth Order with Constant Coefficients, Second Order Linear Differential Equations with Variable Coefficients, Method of Variation of Parameters, Cauchy-Euler Equation, Applications of Differential Equations in Solving Engineering Problems, Laplace Transform and Properties, Sequence and Series, Tests for Convergence of Series, Fourier Series, Functions of Complex Variable, Harmonic Function & Milne's Thompson Method, Conformal Mapping, Taylor's and Laurent's Series, Residue Theorem and Applications etc. for sound conceptual understanding of students. Latest Question papers have been solved and included in the book. Also, short questions have been added at the end of each chapter for better preparation of examinations.

Salient Features

- Useful results and the formulae are explained in brief within each chapter.
- Close to 525 examples for easy understanding of concepts.
- More than 1100 exercise questions strengthen the well-explained theoretical concepts.

ISBN: 9789355017932 | Price: ₹ 499 | Pages: 560 | Size: 6.50" x 9.25" (Paperback)

Contents

Unit-1: Ordinary Differential Equations of Higher Order, 1. Linear Differential Equations of nth Order with Constant Coefficients, 2. Simultaneous Linear Differential Equations, 3. Second Order Linear Differential Equations with Variable Coefficients, 4. Method of Variation of Parameters, 5. Cauchy-Euler Equation

6. Applications of Differential Equations in Solving Engineering Problems, Unit 2: Laplace Transform, 7. Laplace Transform and Properties, 8. Inverse Laplace Transform), 9. Laplace Transform to Solve Ordinary and Simultaneous Differential Equations, Unit-3: Sequence and Series, 10. Sequence and Series, 11. Tests for Convergence of Series, 12. Fourier Series, Unit-4: Complex Variable-Differentiation, 13. Functions of Complex Variable, 14. Harmonic Function & Milne's Thompson Method, 15. Conformal Mapping, 16. Mobius Transformation and their Properties, Unit-5: Complex Variable-Integration, 17. Complex Integration, 18. Taylor's and Laurent's Series, 19. Residue Theorem and Applications

H K Dass is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England).He is also the winner of Secular India Award – 1998.
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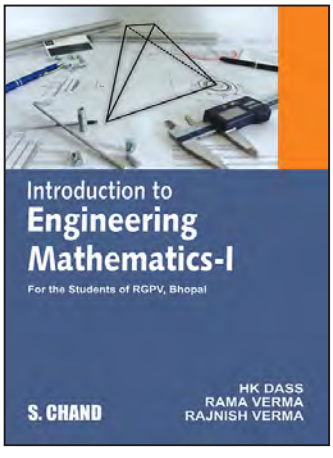

Introduction to Engineering Mathematics-I: For the students of (RGPV), Bhopal

New

H K Dass, Rama Verma & Rajnish Verma

About the Book

Conceptualized specifically for Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, "Introduction to Engineering Mathematics - Volume I" covers important topics such as Mean Value Theorems, Maclaurin and Taylor Series, Partial Differentiation, Beta, Gamma Functions and Properties, Double Integrals, Area and Volume by Double integration, Triple Integration and Applications, Convergence of Sequence and Series, Fourier Series, Vector Spaces and Sub Spaces, Liner Transformations, Rank of Matrix, and Eigen Values and Eigen Vectors for sound conceptual understanding for students.

Key Features

- More than 600 examples for easy understanding of concepts
- More than 850 exercise questions strengthen the well-explained theoretical concepts
- Useful results and the formulae are explained in brief within each chapter.

ISBN: 9789355013811 | Price: ₹ 499 | Pages: 592 | Size: 6.50" x 9.25" (Paperback)

Contents

MODULE 1: Differential Calculus, 1. Mean Value Theorems, 2. Maclaurin and Taylor Series, 3. Partial Differentiation, 4. Maxima and Minima for Two and Three Variables, 5. Method of Lagranges Multipliers, MODULE 2: Integral Calculus, 6. Definite Integrals as Limit of Sum, 7. Beta, Gamma Functions and Properties, 8. Applications of Definite Integrals, 9. Double Integrals, 10. Change of Order of Integration, 11. Area and Volume by Double Integration, 12. Triple Integration and Applications, MODULE 3: Sequence and Series, 13. Convergence of Sequence and Series, 14. Fourier Series, MODULE 4: Vector Space, 15. Vector Spaces, 16. Vector Sub Spaces, 17. Liner Combination and Liner Independence, 18. Basis of Vector Space, 19. Liner Transformations , MODULE 5: Matrices, 20. Rank of Matrix, 21. Solution of Simultaneous Linear Equations by Elementary Transformation, 22. Consistency of Equations, 23. Eigen Values and Eigen Vectors, 24. Diagonalisation of Matrices, 25. Cayley Hamilton Theorem and Applications

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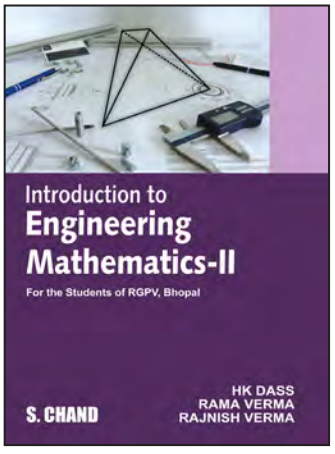


Introduction to Engineering Mathematics-II: For the students of (RGPV), Bhopal

New

H K Dass, Rama Verma & Rajnish Verma

About the Book

Conceptualized specifically for Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, "Introduction to Engineering Mathematics - Volume II" covers important topics such as Differential Equations of First Order, Higher Order Differential Equations with Constant Coefficients, Second Order Linear Differential Equations with Variable Coefficients, Power Series Solutions, Legendre Polynomials, Linear and Non-Linear Partial Differential Equations, Functions of Complex Variable, Differentiation of Vectors for sound conceptual understanding for students.

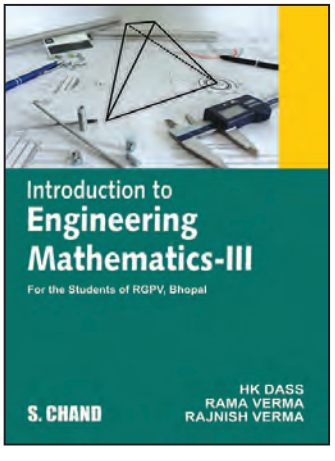
Key Features

- More than 500 examples for easy understanding of concepts
- More than 1900 exercise questions strengthen the well-explained theoretical concepts
- Useful results and the formulae are explained in brief within each chapter.

ISBN: 9789355013828 | Price: ₹ 475 | Pages: 560 | Size: 6.50" x 9.25" (Paperback)

Contents

MODULE 1: Ordinary Differential Equations I, 1. Differential Equations of First Order, 2. Higher Order Differential Equations with Constant Coefficients, 3. Simultaneous Differential Equations, MODULE 2: Ordinary Differential Equations II, 4. Second Order Linear Differential Equations with Variable Coefficients, 5. Method of Variation of Parameters, 6. Power Series Solutions, 7. Legendre Polynomials, 8. Bessel Functions, MODULE 3: Partial Differential Equations, 9. Linear Partial Differential Equations, 10. Non Linear Partial Differential Equations, 11. Homogeneous Linear Partial Differential Equations with Constant Coefficients, MODULE 4: Functions of Complex Variable, 12. Functions of Complex Variable, 13. Complex Integration, 14. The Calculus of Residues, MODULE 5: Vector Calculus, 15. Differentiation of Vectors, 16. Integration of Vectors



Introduction to Engineering Mathematics-III: For the students of (RGPV), Bhopal

New

H K Dass, Rama Verma & Rajnish Verma

About the Book

Conceptualized specifically for Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, "Introduction to Engineering Mathematics – Volume III" covers important topics such as Solution of Polynomial and Transcendental Equations, Finite Differences, Interpolation: Newton's Forward and Backward Difference Formulae, Numerical Differentiation and Integration (Trapezoidal rule and Simpson's 1/3 and 3/8 Rules), Ordinary and Partial Differential Equations, Laplace and Inverse Laplace Transform and Properties, Fourier Transforms, PMF and PDF, Binomial, Poisson, and Normal Distribution for sound conceptual understanding for students.

Key Features

- More than 400 examples for easy understanding of concepts
- More than 700 exercise questions strengthen the well-explained theoretical concepts
- Useful results and the formulae are explained in brief within each chapter.

ISBN: 9789355013835 | Price: ₹ 450 | Pages: 504 | Size: 6.50" x 9.25" (Paperback)

Contents

MODULE 1: Numerical Methods 1, 1. Solution of Polynomial and Transcendental Equations, 2. Finite Differences, 3. Interpolation: Newton's Forward and Backward Difference Formulae, 4. Interpolation with Unequal Intervals: Newton's Divided Difference and Lagrange's Formulae, MODULE 2: Numerical Methods 2, 5. Numerical Differentiation, 6. Numerical Integration: Trapezoidal rule and Simpson's 1/3 and 3/8 Rules, 7. Solution of Simultaneous Linear Algebraic Equations, MODULE 3: Numerical Methods 3, 8. Ordinary Differential Equations, 9. Partial Differential Equations, MODULE 4: Transform Calculus, 10. Laplace Transform and Properties, 11. Inverse Laplace Transform and Properties, 12. Solving Ordinary Differential Equations by Laplace Method, 13. Fourier Transforms, MODULE 5: Concept of Probability, 14. PMF and PDF, MODULE 6: Discrete Distribution, 15. Binomial Distribution

16. Poisson Distribution, 17. Normal Distribution

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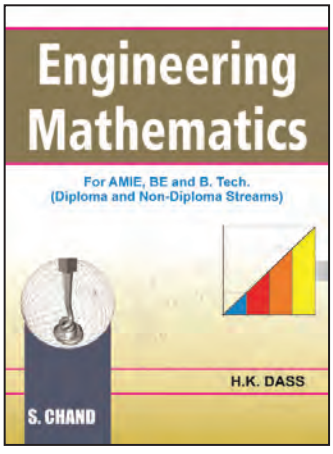


Engineering Mathematics, 14e

New

H K Dass

About the Book

"Engineering Mathematics" is written primarily for the students of AMIE but is tailor-made for other engineering courses as well.

Filled with examples and in-text exercises, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for close to 30 years, it continues to be one of the most sought after texts by the students.

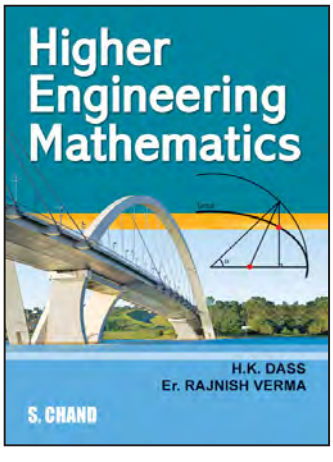
Salient Features

- Every topic relating to the subject has been provided with ample coverage.
- Close to 1000 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 2500 in-text exercise questions and book-end solved question papers provide apt practice of all concepts explained.

ISBN: 9788121905022 | Code: 1010B00071 | Pages: 1,088 | Size: 6.5" X 9.25" (Paperback) | POD

Contents

H K Dass is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England). He is also the winner of Secular India Award – 1998.



Higher Engineering Mathematics

H K Dass & Rajnish Verma

About the Book

Written for all students of engineering, *"Higher Engineering Mathematics"* provides ample practice to be picked for aspirants of various entrance examinations.

Filled with examples and in-text exercises, the text successfully helps the student not only comprehend but practice and retain the understanding of otherwise difficult concepts. A book which has seen, foreseen and incorporated changes in the subject for more than 15 years, it continues to be one of the most sought after texts by the students.

Salient Features

- Every topic relating to the subject has been provided with ample coverage.
- Close to 2000 solved examples (including previous year questions of different universities) on various topics have been incorporated for the better understanding and to make familiar with the standard and trend of questions set in the examinations.
- More than 2500 in-text exercise questions and book-end solved question papers provide apt practice of all concepts explained.

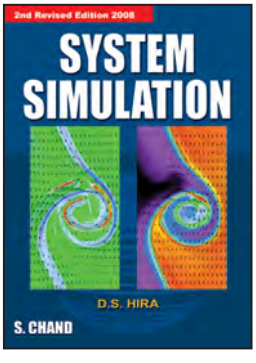
ISBN: 9788121938907 | Code: 1010B00497 | Price: ₹ 1125 | Pages: 1,736 | Size: 6.5" X 9.25" (Paperback)

Contents

Unit-I: 1. Partial Differentiation, 2. Total Differentiation, 3. Maxima and Minima of Functions (Two Variables), 4. Errors, 5. Jacobians, 6. Taylor's Series for Functions of Two Variables, Unit-II: 7. Double Integrals, 8. Application of the Double Integrals (Area, Centre of Gravity, Mass, Volume), 9. Triple Integration, 10. Application of Triple Integration, Unit-III: 11. Differential Equations of First Order, 12. Linear Differential Equations of Second Order, 13. Cauchy-Euler Equations, Method of Variation of Parameters, 14. Simultaneous Linear Differential Equations, 15. Differential Equation of other Types, 16. Applications to Differential Equations, Unit-IV: 17. Determinants, 18. Algebra of Matrices, 19. Rank of Matrix, 20. Consistency of Linear System of Equations and their Solutions, 21. Eigen Values, Eigen Vector, Cayley Hamilton Theorem, Diagonalisation (Complex and Unitary Matrices, Application), Unit-V: 22. Review of Vector Algebra, 23. Differentiation of Vector (Point Function, Gradient, Divergence and Curl of a Vector and their Physical Interpretations), 24. Vector Integration, Unit-VI: 25. Complex Numbers, 26. Expansion of Trigonometric Functions, 27. Functions of Complex Variable, Analytic Function, 28. Conformal Transformation, 29. Complex Integration, 30. Taylor's and Laurent's Series, 31. The Calculus of Residues (Integration), Unit-VII: 32. Series Solutions of Second Order Differential Equations, 33. Bessel's Functions, 34. Legendre Functions, 35. Hermite Function, 36. Laguerre's Function, 37. Chebyshev Polynomials, 38. Gama, Beta Functions, Unit-VIII: 39. Infinite Series, 40. Fourier Series, Unit-IX: 41. Integral Transfroms, 42. Laplace Transform, 43. Inverse Laplace Transforms, 44. Z-Transforms, 45. Hankel Transform, 46. Hilbert Transform, Unit-X: 47. First Order Lagrange's Linear Partial Differential Equations, 48. Linear Partial Differential Equations with Constant Coefficients of 2nd Order, 49. Applications of Partial Differential Equations, Unit-XI: 50. Algebraic and Transcendental Equations (Bisection Method, Regula Falsi, Newton Raphson Method), 51. Simultaneous Linear Equations, 52. Numerical Technique for Solution of Ordinary Differential Equations, 53. Numerical Techniques for Solution of Partial Differential Equation, Unit-XII: 54. Calculus of Variation, 55. Tensor Analysis, Unit-XIII: 56. Linear Programming, Unit-XIV: 57. Statistical Technique, 58. Method of Least Squares, 59. Correlation and Regression, 60. Correlation and Multiple Regression Analysis, Unit-XV: 61. Probability, 62. Sampling Methods, 63. Binomial Distribution, 64. Poisson Distribution, 65. Normal Distribution, 66. Fuzzy Sets • Index

H K Dass is MSc. Diploma in Specialist Studies (Mathematics), University of Hull (England). He is also the winner of Secular India Award – 1998.

Rajnish Verma is alumnus Delhi College of Engineering and MBA from FMS, New Delhi.



System Simulation, 2e

D.S. Hira

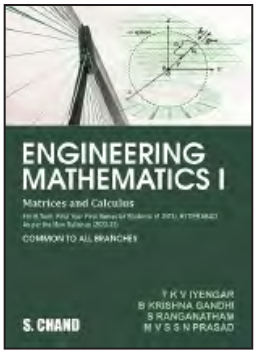
ISBN: 9788121920599
Code: 1010B00229
Price: ₹ 375 | Pages: 304
Size: 6.5" X 9.25" (Paperback)

Contents

1. Concepts of Simulation, 2. Monte Carlo Method, 3. Simulation of Continuous Systems, 4. Random Numbers, 5. Statistical Considerations, 6. Simulation of Queuing Systems, 7. Simulation of Inventory Systems, 8. Simulation of PERT, 9. Design of Simulation Experiment and Output Analysis, 10. Simulation Languages, 11. Simulation Examples, *Appendices: I. Random Numbers Table, II. Chi-Square Distribution, III. Normally Distributed Random Numbers, IV. Cumulative Poisson Probabilities, V. Students t-Distribution, VI. Kolmogorov-Smirnov Critical Values, VII. Area under Normal Distribution, VIII. Percentage Points of the F-Distribution with α = 0.05*

D S Hira is Director General, Swami Vivekanand Group of Institute, Patiala.

Books for JNTU Hyderabad



Engineering Mathematics-I

T K V Iyengar
B Krishna Gandhi
S Ranganatham
M V S S N Prasad

ISBN: 9789355015631 | Price: ₹ 599
Pages: 856 | Size: 6.5" X 9.25" (Paperback)

About the Book

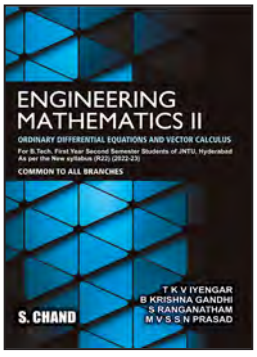
This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader.

Key Features

- Strictly according to the revised syllabus ((R22) 2022 - 23 of First year (First Semester) B.Tech students of JNTU, Hyderabad.
- Close to 750 solved examples aid in ease of understanding of the concepts.
- More than 1050 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

Contents

UNIT - I Matrices 1. Matrices UNIT - II Eigen Values and Eigen Vectors 2. Eigen Values and Eigen Vectors 3. Quadratic Forms UNIT - III Calculus 4. Mean Value Theorems 5. Applications of Definite Integral 6. Beta and Gamma Functions UNIT - IV Multivariable Calculus (Partial Differentiation and Applications) 7. Partial Differentiation and Applications UNIT - V Multivariable Calculus (Integration) 8. Multiple Integrals



Engineering Mathematics-II

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham &
Dr. M.V.S.S.N. Prasad

ISBN: 9789355017413
Price: ₹ 625 | Pages: 688
Size: 6.5" X 9.25" (Paperback)

About the Book

This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader.

Key Features

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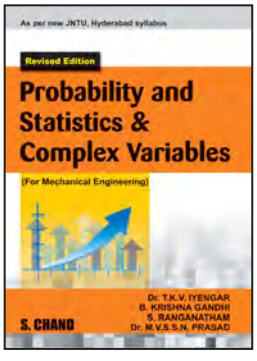
- Close to 700 solved examples aid in ease of understanding of the concepts.
- More than 1000 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

Contents

UNIT – I First Order ODE, 1. Differential Equations of First Order and First Degree UNIT - II Ordinary Differential Equations of Higher Order, 2. Linear Differential Equations of Second and Higher Order, UNIT - III Laplace Transforms, 3. Laplace Transforms, 4. Inverse Laplace Transforms, UNIT - IV Vector Differentiation, 5. Vector Differentiation and Vector Operators, UNIT - V Vector Integration, 6. Vector Integration, 7. Vector Integral Theorems



Probability and Statistics & Complex Variables

Dr T.K.V. Iyengar
Dr B. Krishna Gandhi
S. Ranganadham
Dr M.V.S.S.N. Prasad

ISBN: 9789352837489 | Code: 9789352837489 | Price: ₹ 499
Pages: 728 | Size: 6.5" X 9.25" (Paperback)

About the Book

The book "Probability and Statistics & Complex Variables", has been written strictly according to the latest syllabus (R-18) prescribed by Jawaharlal Nehru Technological University, Hyderabad for B. Tech. second year first semester students of Mechanical, Mechatronics , Mining, Petroleum, Metallurgical and Materials Engineering. An important feature is the inclusion of previous GATE questions at the end of each of chapter for the benefit of students. Questions from latest question papers of JNTU H, Hyderabad have been inserted at proper places. The objective type questions have been given at the end of each unit.

Key Features

- The book is strictly according to the latest syllabus (R-18) prescribed by Jawaharlal Nehru Technological University, Hyderabad for B. Tech. II year First Semester students of Mechanical, Mechatronics , Mining, Petroleum, Metallurgical and Materials Engineering.
- Previous GATE Questions at the end of each chapter for the benefit of the students.
- Questions from latest question papers of J.N.T.U., Hyderabad have been inserted at proper places.
- The Objective type questions have been given at the end of each unit.

Contents

1. Matrices, 2. Eigen Values and Eigen Vectors, 3. Sequences & Series, 4. Calculus, 5. Multivariable Calculus (Partial Differentiation and applications), Solutions to JNTU (H) - Dec. 2018 Question Paper

Laplace Transforms, Numerical Methods & Complex Variables

T. K. V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

ISBN: 9789352838219 | Code: 9789352838219 | Price: ₹ 599
Pages: 904 | Size: 6.5" X 9.25" (Paperback)

About the Book

There are many transform techniques which are used in the analysis and design of engineering systems. Some of the transform techniques were introduced in the beginning by great individuals which were vigorously defined and developed by mathematicians in later days. The technique of Laplace transform is one such. In this book the idea of Laplace transform has been developed for some useful results. Also the Laplace transform technique is used in solving a class of problems in differential equations. This technique is applicable in many cases. In practical problems, in many engineering applications, where we are concerned with solution of initial value problems, this is a useful technique. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students.

Key Features

- In this book the idea of Laplace transform has been developed for some useful results.
- Laplace transform technique is used in solving a class of problems in differential equations.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU H, have been inserted at proper places.
- The objective type questions have been given at the end of each unit.

Contents

1. Laplace Transforms, 2. Inverse Laplace Transforms, 3. Solution of Algebraic & Transcendental Equations, 4. Interpolation, 5. Numerical Integration, 6. Numerical Solution of Ordinary Differential Equations, 7. Functions of a Complex Variable, 8. Complex Integration, 9. Complex Power Series,10. Contour Integration

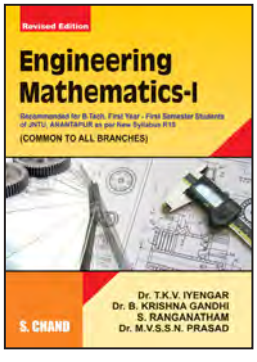
Dr TKV Iyengar was working in the department of Mathematics of NIT, Warangal. He has experience of 40 years in teaching mathematics for engineering students. He has enlightened the applications of mathematics in engineering. Under his guidance, number of students obtained their doctorate degrees.

Dr B Krishna Gandhi was head of the department of mathematics in JNTU, Hyderabad. He was Vice Chancellor of JNTU Ananthapur. He has comprehensive experience as lecturer of mathematics. Under his guidance, number of students obtained their doctorate degrees.

S Ranganatham was head of the department of mathematics in Jawahar Bharati in Kavali which was recognised as prime college by UGC. He has over 35 years of teaching mathematics for engineering and degree students. He obtained his M. Phil from SV University Tirupati.

Dr MVSN Prasad was a lecturer in technical education of Govt of A.P. He obtained his Ph.D from SV University Tirupati. He is now Principal of Government Polytechnic. He wrote many books in mathematics for polytechnic students.

Books for JNTU Anantapur



Engineering Mathematics-I

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham
Dr. M.V.S.S.N. Prasad

ISBN: 9789352837663 | Code: 9789352837663 | Price: ₹ 499
Pages: 776 | Size: 6.5" X 9.25" (Paperback)

About the Book

This is the sixteenth edition of the book "Engineering Mathematics-I". The earlier editions have received positive response from the teachers and the students. This textbook has been written conferring to the revised syllabus (R19) of first year (First Semester) of B. Tech students of JNTU, Anantapur. In this edition some topics have been updated. The previous question paper problems have been included at appropriate places. For the benefit of the students, the previous GATE questions have been included at the end of each chapter. The topics has been made as simple as possible and in some instances detailed explanation is given, as the content is meant to be understood with a minimum effort.

Key Features

- The book is written strictly according to the revised syllabus of JNTU Ananthpur.
- Theory is explained in a lucid manner using good number of examples.
- Latest questions from question paper are used at appropriate places.
- At the end of each chapter, latest questions from GATE question, are included.
- Model question papers are given for the student to prepare for the GATE examination.
- Previous question papers are fully solved and appended at the end.

Contents

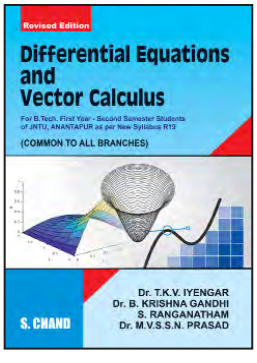
1. Matrices, 2. Eigen Values and Eigen Vectors, 3. Quadratic Forms, 4. Mean Value Theorems, 5. Partial Differentiation and applications, 6. Multiple Integrals, 7. Beta and Gamma Functions

Dr. T.K.V. Iyengar was working in the department of Mathematics of NIT, Warangal. He has experience of 40 years in teaching mathematics for engineering students. He has enlightened the applications of mathematics in engineering. Under his guidance, number of students obtained their doctorate degrees.

Dr. B. Krishna Gandhi was head of the department of mathematics in JNTU, Hyderabad. He was Vice Chancellor of JNTU Ananthapur. He has comprehensive experience as lecturer of mathematics. Under his guidance, number of students obtained their doctorate degrees.

S. Ranganatham was head of the department of mathematics in Jawahar Bharati in Kavali which was recognised as prime college by UGC. He has over 35 years of teaching mathematics for engineering and degree students. He obtained his M. Phil from SV University Tirupati.

Dr. M.V.S.S.N. Prasad was a lecturer in technical education of Govt of A.P. He obtained his Ph.D from SV University Tirupati. He is now Principal of Government Polytechnic. He wrote many books in mathematics for polytechnic students.



Differential Equations and Vector Calculus

Dr. T.K.V. Iyengar
Dr. B. Krishna Gandhi
S. Ranganatham
Dr. M.V.S.S.N. Prasad

ISBN: 9789352838264 | Code: 9789352838264 | Price: ₹ 450
Pages: 512 | Size: 6.5" X 9.25" (Paperback)

About the Book

There exist many problems in engineering and science which are governed by linear or nonlinear ordinary differential equations. The two forms of linear differential equations with variable coefficients which can be reduced to linear differential equations with constant coefficients by using proper substitutions, has been discussed. The linear partial differential equations of second and higher order with constant coefficients. These can be divided into two groups, homogeneous and non-homogenous linear equations. In this book, how to solve such type equations has been elaborately described. In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students

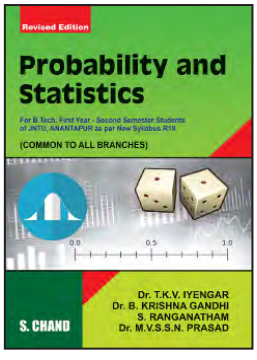
Key Features

- The two forms of linear differential equations with variable coefficients which can be reduced to linear differential equations with constant coefficients by using proper substitutions, has been discussed. The linear partial differential equations of second and higher order with constant coefficients. These can be divided into two groups, homogeneous and non-homogenous linear equations. In this book, how to solve such type equations has been elaborately described.

- In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU A, have been inserted at proper places.
- The objective type questions have been given at the end of each unit

Contents

1. Linear Differential Equations of Higher Order, 2. Equations Reducible to Linear Differential Equations, 3. Partial Differential Equations of First Order, 4. Partial Differential Equations of Higher Order, 5. Vector Differentiation and Vector Operators, 6. Vector Integration, 7. Vector Integral Theorems



Probability and Statistics

Dr T. K. V. Iyengar
Dr B. Krishna Gandhi
S. Ranganatham
Dr MVSSN Prasad

ISBN: 9789352838271
Code: 9789352838271
Price: ₹ 425 | Pages: 592
Size: 6.5" X 9.25" (Paperback)

About the Book

Data science is the practice of using statistical techniques, regression models, machine learning and deep learning algorithms to produce advanced insights and build predictive applications. All software applications are intended to increase productivity and efficiency by automating human activity. Traditionally, these tasks needed to be repetitive in nature and based on a deterministic set of rules. An example would be an accounting system that can take sales and expenses and automatically create a balance sheet. The intent of data science applications is to automate tasks that require human judgement and are not driven by deterministic rules. Data science is a powerful discipline that can deliver great value to enterprises. It can be applied to a variety of domains and there are specialized domain specific techniques available. But data science problems are open-ended and require experimentation and an active spirit of enquiry. Statistics is a tool in the hands of mankind to translate complex facts into simple and understandable statement of facts. Both these approaches are used in this book with examples to explain the concepts. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students

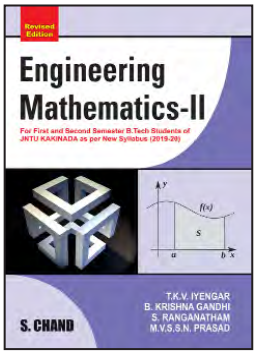
Key Features

- Data science and statistics, both these approaches are used in this book with examples to explain the concepts.
- In this book, the importance of statistical analysis has been explained with examples.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU A, have been inserted at proper places.
- The quiz questions have been given at the end of each unit.

Contents

1. Descriptive Statistics, 2. Measures of Central Tendency and Variability, 3. Correlation 4. Regression, 5. Probability, 6. Random Variables & Distribution Functions, 7. Probability Distributions, 8. Estimation, 9. Testing of Hypothesis (Large Sample Tests), 10. Test of Significance (Small Sample Tests) • Statistical Tables

Books for JNTU Kakinada



Engineering Mathematics-II

T.K.V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

ISBN: 9789352837939 | Price: ₹ 540
Pages: 776 | Size: 6.5" X 9.25" (Paperback)

About the Book

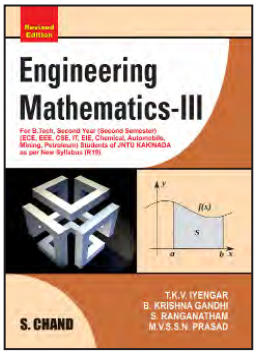
It gives us great pleasure to bring out the Third edition of the book "Engineering Mathematics-II". The earlier editions have received positive response from the teachers and the students. This textbook has been written strictly according to the revised syllabus (R19) of First year - First Semester (Civil, Mechanical, Automobile, Chemical, Mining and Petroleum) & Second Semester (CSE, ECE, EEE, EIE, IT) B.Tech students of JNTU, Kakinada. This edition is an improvement on the earlier edition, made with some topics have been updated and inclusion of Previous Question Paper problems at appropriate places and also Previous GATE Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader.

Key Features

- The book is written strictly according to the revised syllabus of JNTU Kakinada.
- Theory is explained in a lucid manner using good number of examples.
- Latest questions from question paper are used at appropriate places.
- At the end of each chapter, latest questions from GATE question, are included.
- Model question papers are given for the student to prepare for the GATE examination.
- Previous question papers are fully solved and appended at the end.

Contents

1. Real and Complex Matrices and Linear System of Equations, 2. Eigen Values and Eigen Vectors, 3. Quadratic Forms, 4. Solution of Algebraic and Transcendental Equations, 5. Interpolation, 6. Numerical Integration, 7. Numerical Solution of Ordinary Differential Equations



Engineering Mathematics-III

T. K. V. Iyengar
B. Krishna Gandhi
S. Ranganatham
M.V.S.S.N. Prasad

ISBN: 9789352838202
Price: ₹ 595 | Pages: 824
Size: 6.5" X 9.25" (Paperback)

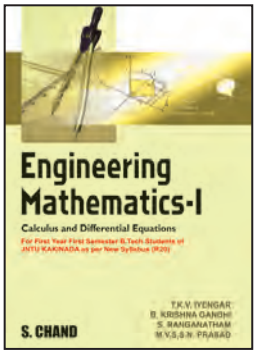
About the Book

In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way. The new concepts of gradient, divergence and curl are introduced. Line, surface and volume integrals which occur frequently in connection with physical and engineering problems are defined. Three important vector integral theorems, Gauss divergence theorem, Green's theorem in plane and Stokes theorem are discussed. The idea of Laplace transform to develop some useful results has been introduced also demonstrated how the Laplace transform technique is used in solving a class of problems in differential equations. Fourier series is an infinite series representation of a periodic function in terms of sines and cosines of an angle and its multiples. How Fourier series is useful to solve ordinary and partial differential equations particularly with periodic functions appearing as non-homogeneous terms has been discussed. This book comprises previous question papers problems at appropriate places and also previous GATE questions at the end of each chapter for the benefit of the students.

Key Features

- In this book, vector differential calculus is considered, which extends the basic concepts of (ordinary) differential calculus, such as, continuity and differentiability to vector functions in a simple and natural way.
- The new concepts of gradient, divergence and curl are introduced.
- Three important vector integral theorems, Gauss divergence theorem, Green's theorem in plane and Stokes theorem are discussed.
- Laplace transform technique is used in solving a class of problems in differential equations.
- Previous GATE questions at the end of each chapter for the benefit of the students.
- Questions with answers from latest question papers of JNTU K, have been inserted at proper places.
- The objective type questions have been given at the end of each unit.

Contents



Engineering Mathematics - I: for B.Tech. First Year (First Semester) Students of JNTU Kakinada

Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

ISBN: 9789355011961
Price: ₹ 675 | Pages: 848
Size: 6.5" X 9.25" (Paperback)

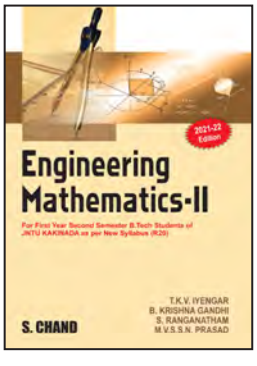
About the Book

"Engineering Mathematics - I [Calculus and Differential Equations]" has been written strictly according to the revised syllabus (R20) of the First year (First Semester) B. Tech students of Jawaharlal Nehru Technological University, Kakinada. Topics are explained in a streamlined manner with minimal error precision as the primary goal of this book is to make students understand the concepts with minimum effort. Additional Previous GATE Questions at the end of each chapter with Previous Question Paper problems makes this book an ideal choice for undergraduate students

Key Features

- Including Chapter wise Previous GATE Questions
- Added with 3 Solved Question papers at the end
- Provided with more than 800 solved examples and over 1000 unsolved questions for practice

Contents



Engineering Mathematics - II: (Linear Algebra and Numerical Methods) JNTU Kakinada

Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

ISBN: 9789355010056
Price: ₹ 625 | Pages: 912
Size: 6.5" X 9.25" (Paperback)

About the Book

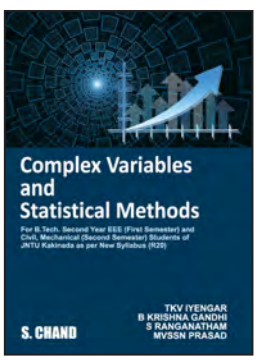
This Textbook "Engineering Mathematics - II (Linear Algebra and Numerical Methods)" has been written strictly according to the revised syllabus (R20) of the First year - Second Semester B. Tech students of Jawaharlal Nehru Technological University, Kakinada. Previous Question Paper problems at appropriate places and GATE 2020 Questions at the end of each chapter for the benefit of the students. The treatment of all topics has been made as simple as possible and in some instances with a detailed explanation as the book is meant to be understood with a minimum effort on the part of the reader. However, as Mathematics is a subject to be understood and practised, the students are advised to practice the exercises.

Key Features

- Strictly according to the revised syllabus (R20) of 1st year - 2nd Semester B. Tech students of JNTU, Kakinada
- GATE 2020 Questions Including Previous Question Paper Problems at appropriate places
- Detailed explanation for all the Topics

Contents

Unit - I Solving Systems of Linear Equations, Eigen Values and Eigen Vectors, 1. Real and Complex Matrices and Linear System of Equations, 2. Eigen Values and Eigen Vectors, Unit - II Cayley-Hamilton Theorem and Quadratic Forms, 3. Quadratic Forms, Unit - III Iterative Methods, 4. Solution of Algebraic and Transcendental Equations, Unit - IV Interpolation, 5. Interpolation, Unit - V Numerical Differentiation and Integration, Solution of Ordinary Differential Equations, 6. Numerical Differentiation, 7. Numerical Integration, 8. Numerical Solution of Ordinary Differential Equations, • B.Tech. I Year, I Semester Regular Examinations, January 2020



Complex Variables and Statistical Methods

Dr. T.k.v. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

ISBN: 9789355011855
Price: ₹ 599 | Pages: 904
Size: 6.5" X 9.25" (Paperback)

About the Book

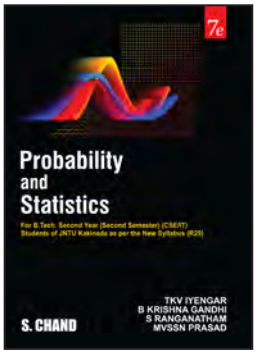
"Complex Variables and Statistical Methods" is written strictly according to the revised syllabus (R20) of B.Tech Second year (First Semester) EEE and Second year (Second Semester) Civil and Mechanical students of Jawaharlal Nehru Technological University, Kakinada. It covers ';Functions of A Complex Variable and Complex Integration', ';Probability and Distributions', ';Sampling Distributions', and ';Test of Hypothesis and Significance' with Previous GATE Questions at the end of every chapter for the benefit of the students.

Key Features

- Strictly according to the revised syllabus (R20) of B. Tech Second year (First Semester) EEE and Second year (Second Semester) Civil and Mechanical students of JNTU, Kakinada.
- Over 900 solved examples aid in ease of understanding of the concepts.
- More than 850 chapter-end and Previous-Year GATE questions to enhance the learning quotient.

Contents

UNIT - I Functions of a Complex Variable and Complex Integration, 1. Functions of a Complex Variable, 2. Complex Integration, UNIT - II Series Expansions and Residue Theorem, 3. Complex Power Series, 4. Singularities and Residue Theorem, UNIT - III Probability and Distributions, 5. Probability, 6. Random Variables & Distribution Functions, 7. Mathematical Expectation, 8. Discrete Probability Distributions, 9. Continuous Random Variables & Distributions, UNIT - IV Sampling Theory, 10. Sampling Distributions, 11. Estimation, UNIT - V Tests of Hypothesis, 12. Test of Hypothesis,13. Test of Significance (Small Samples)



Probability and Statistics (JNTUK)

Dr. T.k.v. Iyengar, Dr. M.v.s.s.n. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi

ISBN: 9789355010643
Price: ₹ 499 | Pages: 712
Size: 6.5" X 9.25" (Paperback)

About the Book

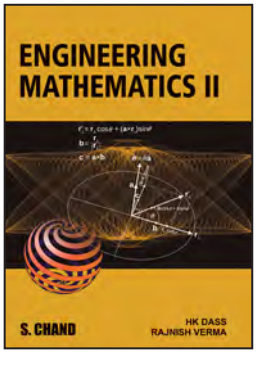
" Probability and Statistics " is written strictly according to the revised syllabus 2020-21 (R20) of B. Tech 2nd year (Second semester) C.S.E. and Allied Branches of CSE students of Jawaharlal Nehru Technological University, Kakinada. It covers Descriptive Statistics and Methods for Data Science, Correlation and Curve Fitting, Probability and Distributions, Sampling Theory, Tests of Hypothesis and tend to enclose Previous Question Paper issues at suitable places and conjointly Previous GATE Questions at the end of every chapter for the benefit of the students.

Key Features

- ·Strictly according to the revised syllabus 2020-21 (R20) of B. Tech. II year (Second semester) C.S.E. and allied branches of CSE students of JNTU, Kakinada.
- ·Over 100 GATE 2020 Questions including previous question paper problems at appropriate places
- ·More than 600 solved examples, 160 objective type question and 260 unsolved exercises strengthen the well-explained theoretical concepts

Contents

UNIT - I, 1. Descriptive Statistics, 2. Measures of Central Tendency and Variability, UNIT - II, 3. Correlation, 4. Regression, 5. Curve Fitting, UNIT - III, 6. Probability, 7. Random Variables & Distribution Functions, 8. Mathematical Expectation, 9. Discrete Probability Distributions, 10. Continuous Random Variables & Distributions, UNIT - IV, 11. Sampling Distributions, 12. Estimation, UNIT - V, 13. Test of Hypothesis, 14. Test of Significance (Small Samples), • Statistical Tables



Engineering Mathematics-II

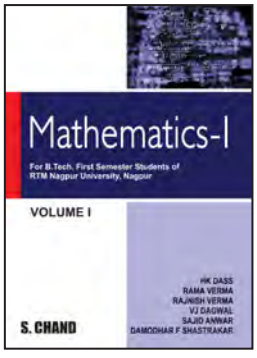
H K Dass & Rajnish Verma

ISBN: 9789355017611
Price: ₹ 450 | Pages: 460
Size: 6.5" X 9.25" (Paperback)

Contents

1. Differentiation of Vectors (Point function, Gradient, Divergence and Curl of a Vector and their Physical Interpretations), 2. Vector Integration., 3. Linear Differential Equations of Second Order, 4. Cauchy - Euler Equations, Method of Variation of Parameters, 5. Simultaneous Linear Differential Equations, 6. Functions of Complex Variable, Analytic Function, 7. Conformal Transformation, 8. Complex Integration (Cauchy's Integral Theorem, Cauchy's Integral Formula for Derivatives of analytic function), 9.Taylor's and Laurent's Series, 10.The Calculus of Residues (Integration), 11. Laplace Transform, 12. Inverse Laplace Transforms (Solution of differential equations)

Book for RTM Nagpur Universities



Mathematics - I (RTMNU)

H K Dass, Rajnish Verma, Dr. Rama Verma, Dr. Vinod J. Dagwal, Dr. Sajid Anwar & Dr. Damodhar F. Shastrakar

ISBN: 9789355011930
Code: 9789355011930
Price: ₹ 300 | Pages: 504
Size: 6.5 X 9.25 (Paperback)

About the Book

"Mathematics - I" is as per the latest prescribed Syllabus RTMNU Nagpur with a major focus on Differential and Multivariable Calculus, Matrices, First Order and Higher Order Ordinary Differential Equations. The text is lucid and brimming with examples for further ease of students. The practice quotient is high as well so that the reader further understands the topics which have been deftly explained.

Key Features

- A comprehensive explanation of all topics is provided with 21 chapters.
- Over 500 solved examples for better understanding.
- More than 800 practice exercise questions from examination papers of various Technical Universities.

Contents

UNIT 1: Differential Calculus
1. Successive Differentiation: Leibniz Rule, 2. Taylor and Maclaurin Series, 3. Indeterminate Forms and L'Hôpital Rule, 4. Maxima and Minima for Function of One Variable UNIT 2: Multivariable Calculus (Differentiation), 5. Partial Derivatives, 6. Total Differentiation, 7. Jacobians, 8. Maxima and Minima for Function of Two Variables, 9. Lagrange Method of Undetermined Multipliers, UNIT 3: Matrices 10. Inverse of Matrix by Partitioning, 11. Rank of Matrix, 12. Consistency of Linear System of Equations, 13. Linear and Orthogonal Transformations, 14. Cayley - Hamilton Theorem, UNIT 4: First Order Ordinary Differential Equations, 15. First Order Differential Equations, 16. Applications of First Order Differential Equations, UNIT 5: Higher Order Ordinary Differential Equations, 17. Higher Order Linear Differential Equations with Constant Coefficients, 18. Method of Variation of Parameters, 19. Cauchy and Legendre's Homogeneous Differential Equations, 20. Simultaneous Differential Equations, 21. Applications of Higher Order Differential Equations, • Questions from Latest RTMNU Examination Papers Mathematics-I, • Index

H K Dass: M.Sc., Diploma in Specialist Studies (Maths), University of Hull England.
Dr. Rama Verma: M.Sc. (Gold Medallist), Ph.D., Associate Professor, Mata Sundri College, University of Delhi.
Er. Rajnish Verma: Ph.D. (P), Follow IETE, MBA, B.E. Electronics Engineering, DCE/DTU Consultant (Retd) - TCS Ltd., Ex. DGM-CMC Ltd.
Dr. Vinod J. Dagwal: Head & Assistant Professor Department of Mathematics Government College of Engineering, Nagpur.
Dr. Sajid Anwar: Professor and former Principal Anjuman College of Engineering and Technology, Nagpur.
Dr. Damodhar F. Shastrakar: Assistant Professor Smt. Radhikatai Pandav College of Engineering, Nagpur.

Mathematics - II Semester-II: (RTM) Nagpur University

H K Dass, Rajnish Verma, Dr. Rama Verma, Dr. Vinod J. Dagwal, Dr. Sajid Anwar & Dr. Damodhar F. Shastrakar

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Price: ₹ 350 | Pages: 480
Size: 6.5" X 9.25" (Paperback)

About the Book

"Mathematics - II" is as per the latest prescribed Syllabus RTMNU Nagpur with a major focus on Integral, Multivariable and Vector Calculus, Statistics and Finite Differences. The text is lucid and brimming with examples for further ease of students. The practice quotient is high as well so that the reader further understands the topics which have been deftly explained.

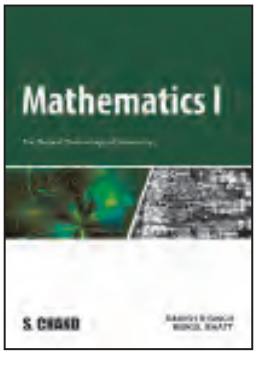
Key Features

- A comprehensive explanation of all topics is provided with 24 chapters.
- Over 500 solved examples for better understanding of the concepts.
- More than 700 exercise questions and 125+ previous year examination questions add to the practice quotient.

Contents

UNIT 1: Integral Calculus, 1. Evaluation of Definite and Improper Integrals, 2.Beta, Gamma Functions and Properties, 3. Differentiation of Definite Integral, 4. Mean Value, Mean Square Value and Root Mean Square Value, 5. Tracing of Cartesian Curves, 6. Applications of Definite Integrals-Length of Curves, 7. Area, 8. Volume and Surface Area of Solids of Revolution - Cartesian, Polar and Parametric curves, UNIT 2: Multivariable Calculus (Integration), 9.Double Integrals-Cartesian and Polar, 10.Change of Order of Integration, 11.Change of Variables-Cartesian to Polar, 12. Applications: Area, Mass, Volume and Centre of Gravity by Double Integrals, 13.Elementary Triple Integrals, UNIT 3: Vector Calculus, 14.Product of Vectors, 15.Vector Differentiation, 16.Vector Integration: Line Integral and Work, UNIT 4: Statistics, 17. Fitting of Curve by Least Squares, 18. Coefficient of Correlation, 19. Lines of Regression, 20. Rank Correlation, UNIT 5: Finite Differences, 21.Finite Differences Operator E & Delta, Factorial Polynomial, 22.Lagrange's Interpolation: Unequal Intervals of Arguments, 23.Numerical Integration, 24.Difference Equation with Constant Coefficients, Questions from Latest RTMNU Examination Papers Mathematics-II, Index

Book for Gujarat University



Mathematics - I

Ravish R. Singh
Mukul Bhatt

ISBN: 9789355015280
Price: ₹ 625 | Pages: 1040
Size: 6.5" X 9.25" (Paperback)

About the Book

Mathematics - I has been written specifically for the first year Gujarat Technological University (GTU) syllabus and students of all programs of engineering since first semester mathematics is common to all branches. It covers Indeterminate Forms, Gamma and Beta Functions, Applications of Definite Integrals, Sequences and Series, Taylor's and Maclaurin's Series, Fourier Series, Partial Derivatives, Multiple Integrals, and Matrices for the benefit of the students.

Key Features

- Apt coverage with strict adherence to the latest GTU syllabus of Mathematics-1
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- Appropriate incorporation of Solutions of GTU examination questions within the text
- A rich exam-oriented pedagogy includes:
  - i) Close to 300 figures
  - ii) Close to 900 in-text solved examples
  - iii) More than 550 exercise questions

Contents

Unit-1, 1. Indeterminate Forms 2. Improper Integrals 3. Gamma and Beta Functions 4. Applications of Definite Integrals, Unit-2, 5. Sequences and Series, 6. Taylor's and Maclaurin's Series, Unit-3, 7. Fourier Series, Unit-4, 8. Partial Derivatives, Unit-5, 9. Multiple Integrals, Unit-6, 10. Matrices, Appendix 1: Differential Formulae, Appendix 2: Integral Formulae, Appendix 3: Reduction Formulae, Appendix 4: Standard Limits, Appendix 5: Standard Curves, Additional Solved Gujarat Technological University Examination Questions, • Index

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
Mukul Bhatt: Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

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Mathematics - II

Ravish R. Singh

Mukul Bhatt

ISBN: 9789355015624
Price: ₹ 550 | Pages: 736
Size: 6.5" X 9.25" (Paperback)

About the Book

Mathematics - II has been written specifically as per the Gujarat Technological University (GTU) syllabus and for First Year (Second Semester) students of all programmes of engineering. It covers important topics such as Vector Calculus, Laplace Transform and Inverse Laplace Transform, Fourier Integral, First Order Ordinary Differential Equations, Ordinary Differential Equations of Higher Orders, and Series Solutions of Ordinary Differential Equations and Special Functions to help students gain a deep-rooted understanding of the key elements of the subject which would help students to build their self-confidence which is the key aspect in learning.

Key Features

- Apt coverage with strict adherence to the latest GTU syllabus of Mathematics-II
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- Appropriate incorporation of Solutions of GTU examination questions within the text
- A rich exam-oriented pedagogy includes:
  - i) Close to 700 in-text solved examples and figures
  - ii) Close to 550 exercise questions

Contents

1. Vector Calculus, 2. Laplace Transform and Inverse Laplace Transform, 3. Fourier Integral, 4. First Order Ordinary Differential Equations, 5. Ordinary Differential Equations of Higher Orders, 6. Series Solutions of Ordinary Differential Equations and Special Functions

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
Mukul Bhatt: Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

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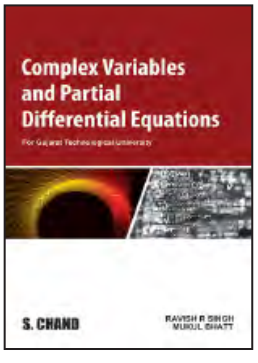


Complex Variables and Partial Differential Equations

Ravish R. Singh & Mukul Bhatt

ISBN: 9789355015334
Price: ₹ 450 | Pages: 640
Size: 6.5" X 9.25" (Paperback)

About the Book

This book has been designed specifically for the Gujarat Technological University (GTU) syllabus and for the students of engineering in their Third Semester. Eight dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the ';tutorial technique', i.e., theory followed by example(s) so that the learner develops an increased sense of conscious intellection. This exceptional mix of theory and application caters to all types of requirements, be it the student or the teacher. Not only is the syllabus rigorously followed, but each topic has also been treated with the end-examination in sight. Concepts are well-aided with solved examples (of different complexities) so that every learner understands the topic at hand.

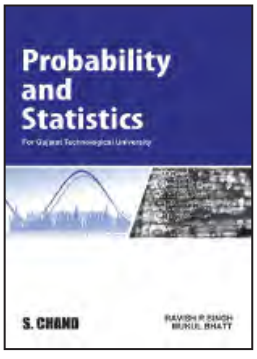
Key Features

- Apt coverage with strict adherence to the latest GTU syllabus of Complex Variables and Partial Differential Equations
- Completion of each section is accompanied with an exercise to test gleaning of individual subject matter
- A rich exam-oriented pedagogy includes:
  - Close to 200 figures
  - Close to 500 in-text solved examples
  - More than 320 exercise questions

Contents

1. Complex Numbers, 2. Complex Differentiation, 3. Conformal Mappings, 4. Complex Integration, 5. Power Series, 6. Residue Integration of Real Integrals, 7. First Order Partial Differential Equations, 8. Higher Order Partial Differential Equations, • Additional Solved Gujarat Technological University Examination Questions, • Index

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
Mukul Bhatt: Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra



Probability and Statistics

Ravish R. Singh & Mukul Bhatt

ISBN: 9789355015341
Price: ₹ 425 | Pages: 552
Size: 6.5" X 9.25" (Paperback)

About the Book

This book has been designed specifically for the Gujarat Technological University (GTU) syllabus and students of engineering in their Third Semester. Seven dedicated chapters are set to sequentially cover each module of the syllabus and are compounded by the ';tutorial technique', i.e., theory followed by example(s) so that the learner develops an increased sense of conscious intellection. This exceptional mix of theory and application caters to all types of requirements, be it the student or the teacher. Not only is the syllabus rigorously followed, but each topic has also been treated with the end-examination in sight. Concepts are well-aided with solved examples (of different complexities) so that every learner understands the topic at hand.

Key Features

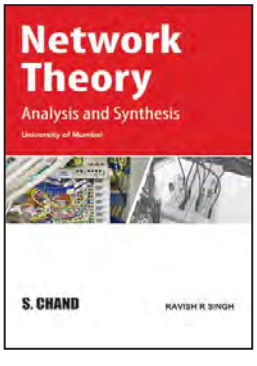
- Apt coverage with strict adherence to the latest GTU syllabus of Probability and Statistics.
- Completion of each section is accompanied with an exercise to test gleaning of individual
  subject matter.
- A rich exam-oriented pedagogy includes:
  - More than 50 figures
  - More than 350 in-text solved examples
  - More than 325 exercise questions

Contents

1. Probability, 2. Random Variables, 3. Basic Statistics, 4. Correlation and Regression, 5. Some Special Probability Distributions, 6. Applied Statistics: Test of Hypothesis, 7. Curve Fitting, • Appendix, • Inde

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra
Mukul Bhatt: Assistant Professor, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra

Book for Mumbai Universities



Network Theory: Analysis and Synthesis

Ravish R. Singh

ISBN: 9789355015358
Price: ₹ 525 | Pages: 608
Size: 6.5" X 9.25" (Paperback)

About the Book

This book is core to the understanding of engineering of Electronics and Telecommunications and hence it becomes an important subject for students of Electronics & Telecommunication Engineering and Electronics Engineering in their Third Semester. A strong conceptual understanding of the subject is what the textbook lends to its reader and an apart from an emphasis on problem-solving approach and discussion on both analysis and synthesis of networks. It offers ample coverage of DC circuits, network theorems, transient analysis, two-port networks, and network synthesis among other major topics.

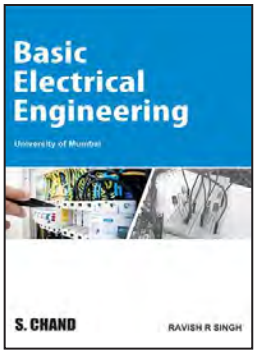
Key Features

- Apt coverage of both analysis and synthesis of networks with strict adherence to the MU syllabus of Network Theory
- Marked problem-solving approach
- A rich exam-oriented pedagogy includes:
  - Close to 1150 figures
  - Close to 400 in-text solved examples
  - More than 400 exercise questions

Contents

1. Circuit Analysis, 2. Magnetic Circuits, 3. Graph Theory, 4. Time Domain Analysis of R-L-C Circuits, 5. Frequency Domain Analysis of R-L-C Circuits, 6. Network Functions, 7. Two-Port Networks, 8. Synthesis of R-L-C Circuits, 9. Filters

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra



Basic Electrical Engineering

Ravish R. Singh

ISBN: 9789355015365
Price: ₹ 499 | Pages: 676
Size: 6.5" X 9.25" (Paperback)

About the Book

Basic Electrical Engineering is designed specifically for the First-Year Engineering students at the University of Mumbai. In that, the positive aspect is a thoughtful blend of theory and problems. This not only helps the students understand the concepts explained but also increases their practice quotient.

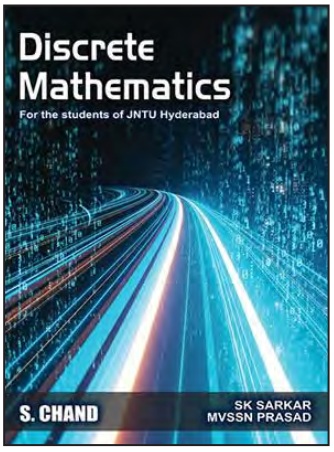
Key Features

- Follows Bloom's taxonomy (Specific learning outcomes can be derived from the taxonomy, though it is oft used to assess learning on a variety of cognitive levels.)
- Apt coverage with strict adherence to the MU syllabus of Basic Electrical Engineering
- Completion of each section is accompanied with multi-format exercises to test gleaning of individual subject matter
- A rich exam-oriented pedagogy includes:
  - Close to 1000 figures
  - More than 450 in-text solved examples
  - Close to 400 exercise questions

Contents

1. Basic Circuit Concepts - Prerequisite, 2. DC Circuits, 3. AC Circuits, 4. Three-Phase Circuits, 5. Transformers, 6. Electrical Machines, 7. DC Machines - Self-study Topic

Ravish R. Singh: Director, Thakur Ramnarayan College of Arts & Commerce, Mumbai, Maharashtra



Discrete Mathematics For the Students of JNTU Hyderabad

New

Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad

About the Book

Discrete Mathematics caters to all students of JNTU Hyderabad who study the subject. Major topics including, but not limited to Set Theory, Relations, Functions, Algebraic Structures, Combinatorics and Number Theory have been explained in detail along with the examples which are based on the latest examinations of various institutions.

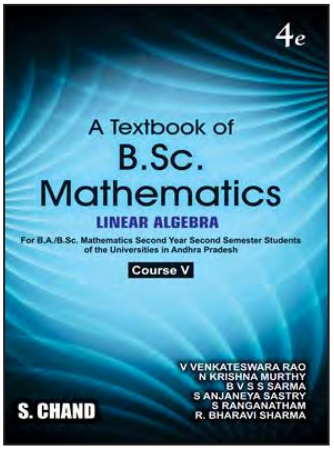
Key Features

- A simple and lucid language has been used.
- More than 300 diagrams and tables not only help understand the subject matter but also make it interesting.
- Close to 700 solved examples help students understand the theoretical concepts.
- More than 800 of questions help facilitate the students to prepare for their examinations.

ISBN: 9789355019943 | Price: ₹ 499 | Pages: 624 | Size: 6.50" x 9.25" (Paperback)

Contents

• Mathematical Logic, • Set Theory, • Relations, • Functions, • Posets and Lattices, • Algebraic Structures • Boolean Algebra • Combinatorics • Graph Theory • Trees



A Textbook of B.Sc. Mathematics: Semester IV (Linear Algebra) : For Universities in Andhra Pradesh

New

V. VENKATESWARA RAO, R BHARAVI SHARMA, B.V.S.S. SARMA, N. KRISHNAMURTHY, S. ANJANEYA SASTRY & S. Ranganatham

About the Book

This book has been written strictly according to new curriculum for Second Year: Second Semester students at all Universities of Andhra Pradesh. It covers important topics such as Vector Spaces, Basis and Dimension, Linear Transformation, Fundamentals of Matrices, Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem, Inner Product Spaces, and Orthogonality. The book will guide the students in a proper way and inspire them to sure and brilliant success. The authors are very happy that the earlier editions have been very well used by the students.

Key Features

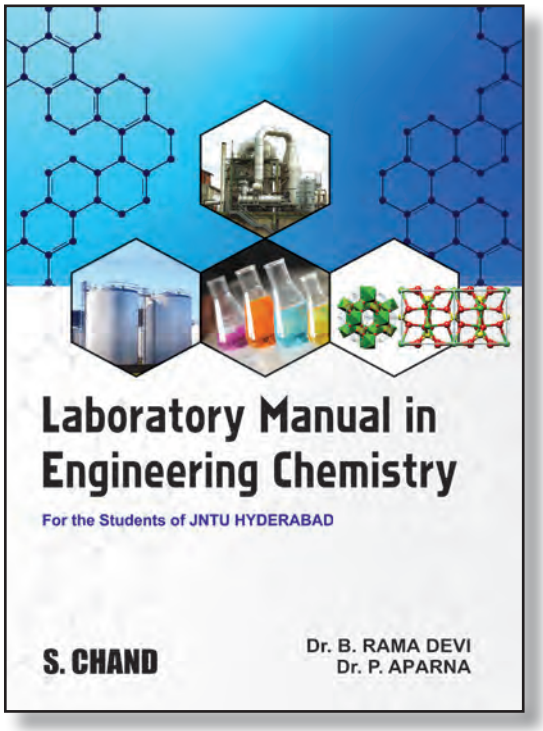
- The book has been written in simple and lucid language.
- Quiz, Questions for Problem Solving Session, Applications of Linear Algebra" are included to make the book more comprehensive.
- Detailed solutions for all problems in the various exercises of different chapters are given at the end.
- Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)" of 60 pages are also included at the end of the book.

ISBN: 9789355017253 | Price: ₹ 275 | Pages: 312 | Size: 6.50" x 9.25" (Paperback)

Contents

UNIT I: 1. Vector Spaces UNIT - II: 2. Basis and Dimension, UNIT - III: 3. Linear Transformation, UNIT - IV: 4. Fundamentals of Matrices, 5. Characteristic Values and Characteristic Vectors, Cayley-Hamilton Theorem UNIT - V: 6. Inner Product Spaces, 7. Orthogonality

Co-Curricular Activities: Quiz (Objective Type Questions), Questions for "Problems Solving Session", Applications of Linear Algebra, Model Question Paper & Previous Question Papers, Key to "A Textbook of B.Sc. Mathematics - Vol. II (Course 5- Linear Algebra)"



Laboratory Manual in Engineering Chemistry : For the Students of JNTU Hyderabad

Dr. B. Rama Devi & Dr. P. Aparna

New

About the Book

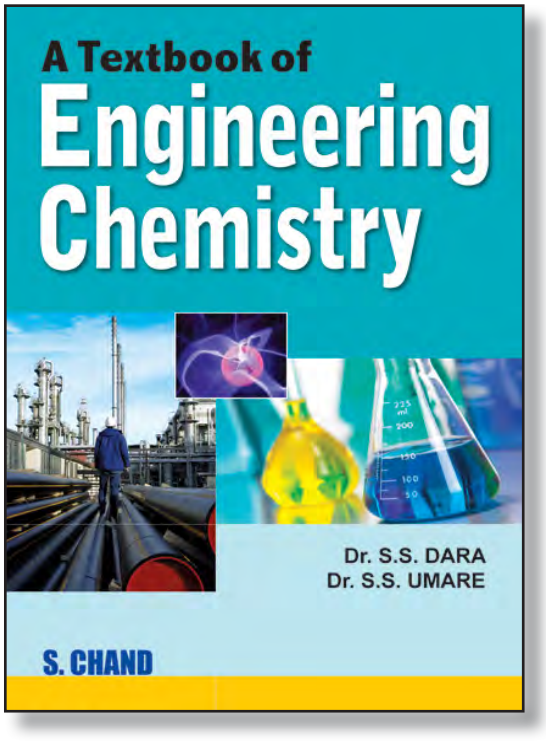
The book is written to gain the basic knowledge on the principles of chemistry required for practical applications in engineering concepts. This book consists organic and general chemistry experiments for chemical engineering for 1st and 2nd semester students. The book also explains the precautions and safety rules for avoiding the accidents in chemistry laboratory. It covers Estimation of Ferrous iron by Dichrometry and Permanganometry Method, Estimation of Acetic Acid by Conductometric Titrations, Estimation of the Amount of Fe+2 by Potentiomentry, Determination of an Acid Concentration using pH Meter, Preparation of Nylon-6 and Bakelite (Phenol-Formaldehyde Resin), Estimation of Acid Value of Given Lubricant Oil, Determination of Rate of Corrosion of Mild Steel, Preparation of Benzanilide from Benzophenone via the Oxime by Beckmann Rearrangement etc.

Salient Features

- The basic aim of the book is to inculcate the ability to design an experiment, to make observations carefully and to draw the conclusions out of experimental data.
- This book is divided in 8 parts and all parts consist of relevant experiments.
- Student's requirements are given top priority and the material is fashioned in a student-friendly style.

ISBN: 9789355016232 | Price: ₹ 125 | Pages: 136 | Size: 6.5" X 9.25" (Paperback)

Contents



A Textbook of Engineering Chemistry, 12e

S.S. Dara & S.S. Umare

About the Book

"A Textbook of Engineering Chemistry" is written exclusively for students of all branches of engineering, keeping in view their professional requirements. A comprehensive book, divided in 26 chapters, in its twelfth edition, with the help of apt revisions, continues to cover the entire syllabus of engineering chemistry for different universities for more than 30 years.

Salient Features

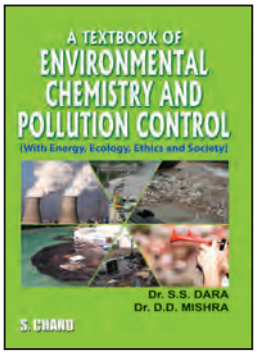
- Dedicated chapters on Environmental Chemistry, Non-Conventional Energy, Green Chemistry and Photochemistry
- Close to 700 tables, figures, examples and questions for students' understanding and practice
- Two appendixes explaining the El Niño Phenomenon and its Effects and Basic Principles of Green Chemistry

ISBN: 9788121903592 | Code: 1010C00092 | Price: ₹ 825 | Pages: 992 | Size: 6.5" X 9.25" (Paperback)

Contents

S S Dara is Former Professor and Head: Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

S S Umare is Professor and Head: Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.



A Textbook of Environmental Chemistry and Pollution Control, 9e

S.S. Dara & D.D. Mishra

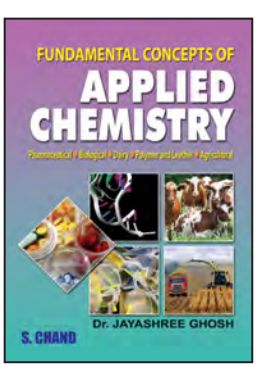
ISBN: 9788121908832
Code: 1004D00189
Price: ₹ 495 | Pages: 536
Size: 6.5" X 9.25" (Paperback)

Contents

1. Environmental Chemistry, 2. Environmental Pollution: {A. Air Pollution, B. Water Pollution, C. Noise Pollution, D. Soil Pollution, E. Marine Pollution, F. Thermal Pollution, G. Nuclear Hazards (Pollution)}, 3. Solid Wastes – Pollution, Treatment and Disposal, 4. Hazardous Wastes, 5. Trace Elements – Pollution & Control, 6. Natural Resources, 7. Energy and Environment, 8. Ecosystems, 9. Genetic and Plant Biodiversity, 10. Bio-Technology and its Application in Environmental Protection, 11. Environmental Management, 12. Social Issues and the Environment, 13. Human Population and the Environment, 14. Effects of Electric and Magnetic Fields in the Environment, 15. Sustainable Development: New Approaches, 16. Green Chemistry for Clean Technology, 17. Ethics and Moral Values • *Appendices: 1. Rio-declaration on Environment and Development (Earth Charter), 2. Drinking Water Standards, 3. National Ambient Air Quality Standards, 4. Standards for Noise Levels, 5. Standards for Discharge of Industrial and Sewage Effluents, 6. Standards of Maharashtra Pollution Control Board for Treated Waste Water* • *Bibliography* • *Index*

S S Dara is former Professor and Head, Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

D D Mishra is Principal, Technocrats Institute of Technology, Bhopal.



Fundamental Concepts of Applied Chemistry

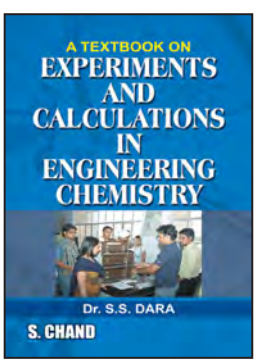
Jayashree Ghosh

ISBN: 9788121926249
Code: 1004000282
Price: ₹ 395 | Pages: 448
Size: 6.5" X 9.25" (Paperback)

Contents

Unit-I: Pharmaceutical Chemistry: 1. Introduction, 2. Classification and Nomenclature of Drugs, 3. Mechanism of Drug Action and Metabolism of Drugs, 4. Causes of Common Diseases and their Treatment by Drugs, 5. Some Medicinally Important Inorganic Compounds, 6. Biological Role of Some Inorganic Compounds, 7. Antibacterial Drugs, 8. Antiseptics and Disinfectants, 9. Anaesthetics, 10. Analgesics, Antipyretic and Anti-Inflammatory Agents, 11. Anti-Convulsant Agents, 12. Diabetes and Hypoglycemic Drugs, 13. Cancer and Antineoplastic Drugs, 14. Vitamins, 15. Psychopharmacology, 16. Blood and Haematological Agents, 17. Cardio Vascular Drugs, 18. Acquired Immuno-Deficiency Syndrome (AIDS), 19. Indian Medicinal Plants, Unit-II: Biological Chemistry: 20. Nutrients Digestion and Absorption, 21. Enzymes, 22. Hormones, 23. Micro Nutrients and their Biological Role, Unit-III: Dairy Chemistry: 24. Milk and Milk Products, Unit-IV: Polymers and Leathers: 25. Polymer Chemistry (Gigantic Molecules), 26. Leather Chemistry, Unit-V: Agricultural Chemistry: 27. Soil Chemistry, 28. Insecticides, Fungicides and Herbicides, 29. Fertilizers, 30. Manures, Compost and Saw Dust • *Appendix-I: Units and their Abbreviations, Conversion Tables, Table of Measures* • *Appendix-II: Average Nutritive Value of Foods stuffs, Summary of Drugs* • *Questions* • *References*

Jayashreee Ghosh is HOD, Chemistry Department, Anna Adarsh College for Women, Chennai.



A Textbook on Experiments and Calculations in Engineering Chemistry

S.S. Dara

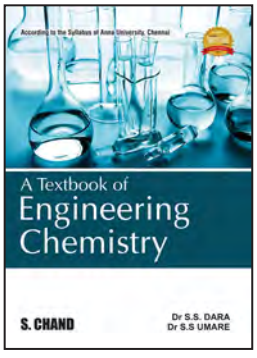
ISBN: 9788121908641
Code: 1004000048
Price: POD | Pages: 288
Size: 5.5" X 8.5" (Paperback)

Contents

• *Laboratory Rules and First Aid* • *Introduction on Fundamentals of Analysis,* 1. Water and Waste Water Analysis, 2. Water Softening by Lime-Soda Process and Zeolite Process, 3. Fuels, 4. Combustion Calculations, 5. Lubricants, 6. Ion-Exchangers, 7. Portland Cement, 8. Analysis of Metals in Ores and Alloys, 9. Polymers, Resins and Plastics, 10. Miscellaneous • *Appendices: I. International Atomic Weights, II. Data on the Strength of Aqueous Solutions of the Common Acids and Aqueous Ammonia, III. Colour Changes and pH Range of some Indicators, IV. Molecular Weights and Equivalent Weights of some Common Reagents* • *Bibliography*

S S Dara is former Professor and Head, Department of Applied Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

Books for Anna University



A Textbook of Engineering Chemistry

Dr. S.S. Dara
Dr. S.S. Umare

ISBN: 9789352830688
Code: 9789352830688
Pages: 264 | POD
Size: 6.5" X 9.25" (Paperback)

About the Book

Engineering Chemistry is written for 1st year, 1st Semester Engineering students (all branches) of ANNA University. This book lends further support for their conviction that the engineering graduate who knows the differences in chemical properties of alternative materials and who understands the general chemical principles on which their behaviour depends will prove to be a better and more successful than one who does not.

Key Features

- The book is written for students keeping in view of their professional requirement into their practical life.
- The book embodies chapters which are of basic importance.
- Each chapter consists of updated information, in view of the recent developments.
- Book includes discussion of basic physiochemical principles, practical applications and significance.
- Examples given in chapters contains systematic methods of problem solving and calculations.
- Enquiring questions are given in all the chapters.

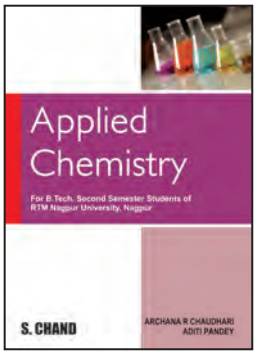
Contents

1. Water and Its Treatment, 2. Surface Chemistry, 3. Catalysis, 4. Alloys and Phase Rule, 5. Fuels and Combustion, 6. Energy Sources, 7. Storage Devices

Dr. S. S. Dara, M. Sc., Ph. D, Former Professor & Head of the Department of Applied Chemistry at Visvesvaraya National Institute of Technology, Nagpur.

Dr. S. S. Umare, M. Sc., Ph. D, Professor & Head of the Department of Applied Chemistry at Visvesvaraya National Institute of Technology, Nagpur.

RTM Nagpur University



Applied Chemistry: Semester-II

Dr. Archana R. Chaudhari &
Dr. Aditi S. Pandey

ISBN: 9789355012258
Price: ₹ 200 | Pages: 232
Size: 6.5" X 9.25" (Paperback)

About the Book

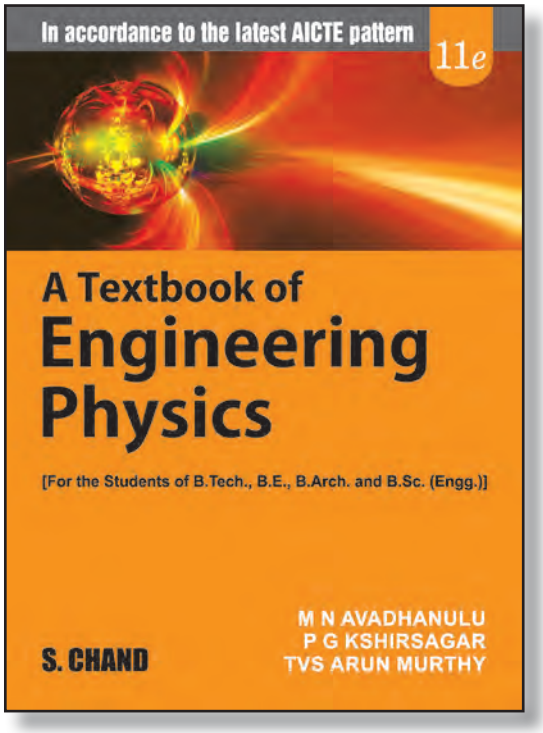
"Applied Chemistry" is written exclusively for B. Tech. Second semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). It includes important topics such as Periodic Properties and Atomic, Molecular Structure, Thermodynamics and Corrosion, Applications of Spectroscopic Techniques, Basic Green Chemistry and Water Technology that help the student in learning the principles of Chemistry more effectively.

Key Features

- Includes more than 100 figures and close to 100 "Points to remember" and "Interesting facts" to improve the students' understanding as well as retention of that information
- Close to 150 questions in the form of chapter-end pedagogy strengthen the well-explained theoretical concepts

Contents

Unit 1. Periodic Properties and Atomic, Molecular Structure, Unit 2. Thermodynamics and Corrosion, Unit 3. Applications of Spectroscopic Techniques, Unit 4. Basic Green Chemistry, Unit 5. Water Technology



A Textbook of Engineering Physics, 11e

M N Avadhanulu, P G Kshirsagar &
T V S Arun Murthy

About the Book

Primarily written for the first year undergraduate students of engineering, *"A Textbook of Engineering Physics"* also serves as a reference text for B.Sc students, technologists and practitioners.

The book explains all the relevant and important topics in an easy-to-understand manner. Forty chapters, beginning with a detailed discussion on oscillation, the book goes on to discuss optical fibres, lasers and nanotechnology. A rich pedagogy helps in understanding of every concept explained.

A book which has seen, foreseen and incorporated changes in the subject for more than 25 years, it continues to be one of the most sought after texts by the students.

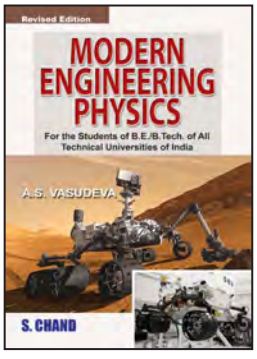
Salient Features

- 50 chapters ensure that every crucial concept is given due importance for this fundamental subject.
- SEVENTEEN NEW Chapters on major topics such as but not limited to Geometrical Optics, Non-linear Optics, Heat Transfer, Vacuum Technology, Quantum Statistics, Solid Stage Diodes, Superconductors, Masers, Nanotechnology and Liquid Crystals
- More than 1550 examples figures and tables aid to the concepts explained and close to 1800 chapter-end questions and problems enhance the practice quotient of the book.

ISBN: 9789352833993 | Code: 9789352833993 | Price: ₹ 925 | Pages: 1,440 | Size: 6.5" X 9.25" (Paperback)

Contents

M N Avadhanulu is Former Professor and Head, Department of Physics, Kavikulguru Institute of Technology & Science Ramtek (Nagpur).
P G Kshirsagar is Former Head of the Department of Applied Physics, Visvesvaraya National Institute of Technology, Nagpur.
TVS Arun Murthy is HoD, Physics S&H and Vice Principal, Joginpally BR Engineering College, Hyderabad.



Modern Engineering Physics

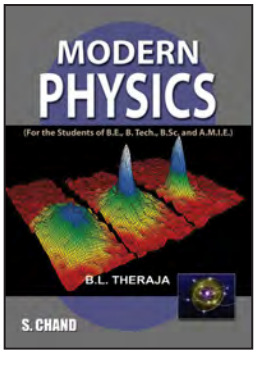
A.S. Vasudeva

ISBN: 9788121917575
Code: 1010C00182
Price: ₹ 795 | Pages: 1,248
Size: 6.5" X 9.25" (Paperback)

Contents

Part-I: Properties of Matter: 1. Units and Measurement, 2. Gravitation, 3. Centre of Mass and Collisions, 4. Rotational Motion, 5. Elasticity, 6. Viscosity, 7. High Vacuum Technology, 8. Theory of Relativity, Part-II: Thermal Physics: 1. Kinetic Theory of Gases, 2. Low Temperature Physics, 3. Thermometry, 4. Transmission of Heat, 5. Radiation, 6. Laws of Thermodynamics, 7. Entropy, Part-III: Optics: 1. Nature of Light, 2. Dispersion and Aberrations, 3. Eyepieces, 4. Interference, 5. Diffraction, 6. Polarization, 7. Photometry and Optical Instruments, 8. Lasers and Fibre Optics, 9. Electromagnetic Waves, Part-IV: Sound: 1. Simple Harmonic Motion, 2. Wave Motion, 3. Interference and Beats, 4. Vibration in Strings, 5. Doppler Effect, 6. Ultrasonics, Part-V: Electrostatics: 1. Electric Fields, 2. Gauss's Law and Electric Potential, 3. Capacitors, 4. Dielectrics, 5. Scalar and Vector Fields, Part-VI: Electricity and Magnetism: 1. Electromagnetism, 2. Self and Mutual Induction, 3. Magnetic Circuits and Materials, 4. Thermoelectricity and Low Resistance Measurement, Part-VII: Modern Physics: 1. General Properties of the Nucleus, 2. Nuclear Models, 3. Natural Radioactivity, 4. Alpha, Beta and Gamma Ray Spectra, 5. Nuclear Reactions and Artificial Radioactivity, 6. Interaction of Nuclear Radiation with Matter, 7. Radiation Detectors, 8. Cosmic Rays and Elementary Particles, 9. X-Rays, 10. Matter Waves and Uncertainty Principle, 11. Quantum Mechanics, 12. Crystal Structure, 13. Band Theory of Solids, 14. Metals, Insulators and Semiconductors, 15. Spectroscopy, 16. Nuclear Fission and Fusion, 17. Electron Charge and Mass Spectrographs, 18. Non-Destructive Testing, 19. Thin Films and Advance Spectroscopy, 20. Particle Accelerators, 21. Superconductivity, 22. Nanotechnology

A S Vasudeva is Professor & Head, Department of Physics, BBSB Engineering College, Fateh Garh Saheb, Punjab. He is former Head, Department of Physics and Applied Sciences, Guru Nanak Dev Engineering College, Ludhiana.



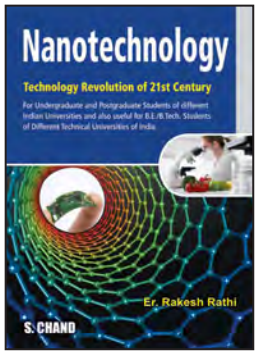
Modern Physics, 16e

B.L. Theraja

ISBN: 9788121901635
Code: 1010C00036
Price: ₹ 360 | Pages: 336
Size: 6.5" X 9.25" (Paperback)

Contents

1. Electric & Magnetic Fields, 2. The Electron, 3. The Atomic Structure, 4. Crystallography, 5. Quantum Theory, 6. Bonds in Solids, 7. Classification of Solids, 8. X-rays, 9. Waves and Particles, 10. The Atomic Nucleus, 11. Natural Radioactivity, 12. Artificial Radioactivity, 13. Nuclear Reactions, 14. Nuclear Fission and Fusion, 15. Nuclear Energy Sources, 16. Particle Accelerators, 17. Ultrasonics • *Appendices: A. Diffraction Grating, B. Values of Physical Constants, C. Table of Elements* • *Index*



Nanotechnology: Technology Revolution of 21st Century

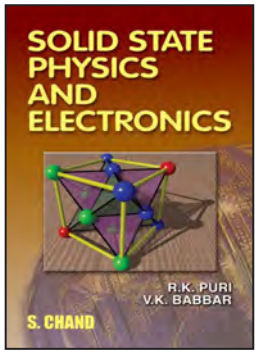
Rakesh Rathi

ISBN: 9788121930826
Code: 1010A00378
Price: ₹ 405 | Pages: 304
Size: 6.5" X 9.25" (Paperback)

Contents

1. Introduction, 2. Nanotechnology Timeline, 3. Core Concept of Nanotechnology, 4. Tools to Measure and Make Nanostructure, 5. Applications of Nanotechnology, 6. Nanomedicine, 7. Nanoelectronics, 8. Nanosensing, 9. Nanomagnetics, 10. Recent Development, 11. Impact of Nanotechnology, 12. Global Scenario, 13. Future and Grand Challenges • *Appendix-A: Frequently Asked Questions with Answers* • *Appendix-B: Nano Quiz (MCQs)* • *Appendix-C: Glossary*

Rakesh Rathi is a master trainer in Physics with more than 14 years of experience in teaching and training in Kota.



Solid State Physics and Electronics, 3e

R.K. Puri & V.K. Babbar

ISBN: 9788121914758
Code: 1010A00176
Price: ₹ 550 | Pages: 616
Size: 5.5" X 8.5" (Paperback)

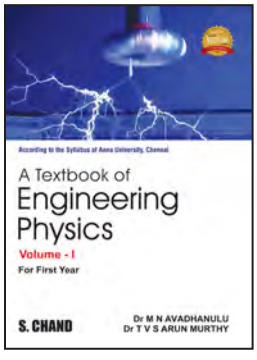
Contents

1. Crystal Structure, 2. X-Ray Diffraction and Reciprocal Lattice, 3. Bonding in Solids, 4. Lattice Vibrations, 5. Free Electron Theory of Metals, 6. Band Theory of Solids, 7. Semiconductors, 8. Magnetism in Solids, 9. Dielectric Properties of Solids, 10. Superconductivity, 11. Junction Diodes, 12. Rectifiers, 13. Transistors and Amplifiers, 14. Oscillators, 15. Modulation and Demodulation, 16. Cathode Ray Oscilloscope, 17. Radio Communication and Television, 18. Logic Gates • *Appendix-I: Voltage and Current Sources* • *Appendix-II: Thevenin's and Norton's Theorems* • *Appendix-III: Table of Physical Constants and Conversion Factors Index* • *References* • *Index*

R K Puri, Ph.D., Professor, Department of Physics, Indian Institute of Technology, New Delhi.

V K Babbar, Ph.D., Lecturer, Department of Applied Physics, Guru Nanak Dev University, Amritsar.

Books for Anna University



A Textbook of Engineering Physics Volume – 1

Dr. M N Avadhanulu
Dr. T V S Arun Murthy

ISBN: 9789352830695
Code: 9789352830695
Size: 6.5" X 9.25" (Paperback)
POD

About the Book

The book is written as per syllabus of 1st year, 1st Semester B.E. Students of ANNA University. The book covers all the topics mentioned in the latest syllabus. It would serve as a distinct single source where the requirements of the students are given top priority and the material is molded in a student friendly style.

Key Features

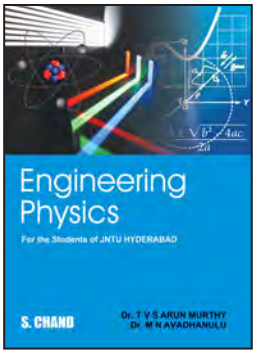
- The requirements of the students are given top priority and the material is shaped in a student-friendly style.
- The philosophy of presentation of the material in the book is based upon decades of classroom interactions.
- Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and objective type questions, both multiple choices and fill up the blanks along with answers are included at the end of each chapter.
- Review questions are given to provide the student an idea of likely questions that appear in examinations. Solved examples are included in the text in order to expedite the learning process of students of all hues.

Contents

1. Properties of Matter, 2. Waves and Fiber Optics, 3. Thermal Physics, 4. Quantum Physics, 5. Crystal Physics, 6. Glossary

Dr. M N Avadhanulu, initiated research on liquid crystals for the first time in the physics department of Andhra University in 1965 and obtained his Ph. D. in 1973. In 1976, he joined Central Electronics Ltd., Sahibabad in the LCD Division. He migrated to teaching profession in 1986 and joined the Kavikulguru Institute of Technology and Science, Maharashtra.

Dr. T V S Arun Murthy, Principal NOVA college of Engineering and Technology, Vijayawada has more than two decades of teaching experience. He has authored a textbook on 'Electromagnetic Fields' published by S. Chand & Company which is prescribed as text and reference book across India. He has published 28 research papers in international journals.



Engineering Physics

Dr. T V S Arun Murthy
Dr. M N Avadhanulu

ISBN: 9789352834877
Code: 9789352834877
Price: ₹ 250 | Pages: 244
Size: 6.5" X 9.25" (Paperback)

About the Book

The book "Engineering Physics" is as per the common syllabus for Civil, Mechanical, Automobile Engineering, ME (M), MME, Mining and Petroleum Engineering branch students pursuing their B.Tech degree course from JNTU Hyderabad, Hyderabad. The book covers all the topics mentioned in the latest syllabus. In each chapter, the fundamental concepts related to the topic are highlighted and the in-between continuity is emphasized. It would serve as a distinct single source where the requirements of the students are given top priority and the material is shaped in a student-friendly style. The presentation of the material in this book is based upon decades of classroom interactions.

Key Features

- The fundamental concepts relevant to the topic are highlighted.
- The proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and objective questions, both multiple choices and fill up the blanks along with answers are placed appropriately.
- Review questions are given to provide the student an idea of likely questions that appear in examinations.
- Solved examples are included in the text in order to expedite the learning process of students.

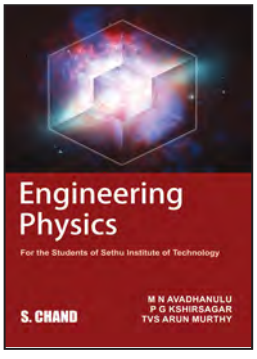
Contents

1. Introduction to Mechanics, 2. Harmonic Oscillations, 3. Waves in One Dimension, 4. Wave Optics, 5. Lasers and Fibre Optics, Review Questions • Multiple Choice Questions • Answers to Multiple Choice Questions • Fill up the Blanks • Answers

Dr. TVS Arun Murthy obtained Ph.D. in 1991 and has more than twenty-five years of teaching and administrative experience. He has authored a textbook on 'Electromagnetic Fields' published by S Chand & Company which is prescribed as text and reference book across India. He is a co-author of book "Engineering Physics" and "Applied Physics" written according to the syllabus of JNTUK, Kakinada. He has published 28 research papers in refereed International and National journals and attended 14 conferences and seminars at National and International level. He was convener of two National level seminars and edited the proceedings of National Seminar on 'Renewable Energy Sources and other Technologies for Rural Development' sponsored by MNES, Govt. of India.

Dr. MN Avadhanulu initiated research on liquid crystals for the first time in Physics department of Andhra University in 1965 and obtained Ph.D. in 1973. In1976, he joined Central Electronics Ltd (CEL), Sahibabad in the LCD division. He migrated to teaching profession in1986 and joined Kavikulguru Institute of Technology and Science, Ramtek, Maharashtra. He occupied number of administrative posts in the institute such as HOD, Dean (student affairs) and Dean (academic affairs). He was elected and served as member of board of studies in Applied Sciences and Humanities under the faculty of Engg. & Tech, Nagpur University during 1991-1994 and was instrumental in modernizing the syllabus of Applied Physics for B.E. He has implemented number of innovative teaching methods to improve the appreciation of Physics by the Engineering students. He has written books for Engineering and Science Graduates as per the prescribed syllabus.

Books for Sethu Institute of Technology



Engineering Physics: For the Students of Sethu Institute of Technology

Dr. M. N. Avadhanulu,
TVS Arun Murthy &
P G Kshirsagar

ISBN: 9789355017826
Price: ₹ 500 | Pages: 528
Size: 6.5" X 9.25" (Paperback)

Contents

1This textbook has been designed to provide a single source of information for Engineering undergraduates of different specialization and provide them a solid foundation in Physics. The book meets with the requirements of undergraduate students of Physics and aptly covers the important topics such as Coulomb's Law, Principle of Superposition, Gauss' Law of Electrostatics in Free Space, Biot-Savart, Ampere's, and Gauss's Law, Maxwell's Wave Equations for Free Space, Wave Propagation in a Lossy Medium, Sound: Classification, Characteristics of Musical Sound, Reverberation Theory, Heat Conduction through Compound Media, Thermal Conductivity, Law of Conservation of Energy, Laws of Thermodynamics, Wiedemann-Franz Law, Energy Band Diagram, Semiconductors, Solid State Diodes, Dielectric and Magnetic Materials, Modern Engineering Materials, Nanotechnology, and well described the topic Liquid Crystals etc.

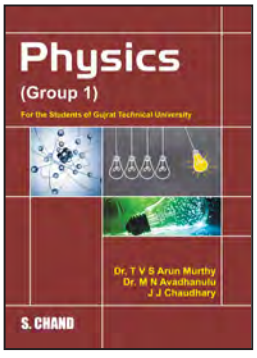
Salient Features

- Seventeen Chapters are divided in smaller parts and sub-headings to make to reading easy from one topic to another.
- An attempt is made by blending careful presentation of fundamental concepts and methods of Physics.
- The book contains a rich pedagogy and includes:
- Close to 450 figures.
- Close to 125 in-text solved examples.
- More than 450 exercise questions..

Contents

1. Electrostatics, 2. Magnetostatics and Electrodynamics, 3. Electromagnetic Waves, 4. Architectural Acoustics, 5. Heat Transfer, 6. Elements of Thermodynamics, 7. Conductors, 8. Band Theory of Solids, 9. Semiconductors, 10. Solid State Diodes, 11. Dielectric Materials, 12. Magnetic Materials, 13. Superconductors, 14. Optical Fibres, 15. Modern Engineering Materials, 16. Nanotechnology, 17. Liquid CrystalsLiquid Crystals

Books for Gujarat Technical



Physics (Group I)

Dr. T V S Arun Murthy
Dr. M N Avadhanulu
J J Chaudhary

ISBN: 9789352835904
Code: 9789352835904
Price: ₹ 225 | Pages: 208
Size: 6.5" X 9.25" (Paperback)

About the Book

This book Physics Group I is for B.Tech and BE students of Gujarat Technological University (GTU). The book covers all the topics mentioned in the latest syllabus. It would serve as a distinct single source where the requirements of the students are given top priority and the material is molded in a student-friendly style. The philosophy of presentation of the material in the book is based upon decades of classroom interactions. In each chapter, the fundamental concepts pertinent to the topic are highlighted and the in-between continuity is emphasized. The book satisfies the thirst of the inquisitive student and at the same time, it provides material to such students whose main concern is about getting through the examinations. Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects. Key terms and Objective questions both multiple choices and fill up the blanks along with answers are included at the end of each chapter. Review questions are given to provide the student an idea of likely questions that appear in examinations. Worked out examples are included in the text in order to expedite the learning process of students of all hues.

Key Features

- The requirements of the students are given top priority and the material is molded in a student-friendly style.
- The philosophy of presentation of the material in the book is based upon decades of classroom interactions.
- Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the technological aspects.
- Key terms and Objective questions both multiple choices and fill up the blanks along with answers are included at the end of each chapter.
- Review questions are given to provide the student an idea of likely questions that appear in examinations. Worked out examples are included in the text in order to expedite the learning process of students of all hues.

Contents

1. Properties of Matter, 2. Waves, Motion and Acoustics, 3. Ultrasonic and Non-Destructive Testing, 4. Three Phase Circuits Superconductivity, 5. Lasers

Dr. TVS Arun Murthy obtained Ph.D. in 1991 and has more than twenty-five years of teaching and administrative experience. He has authored a textbook on 'Electromagnetic Fields' published by S Chand And Company which is prescribed as text and reference book across India. He is a co-author of book "Engineering Physics" and "Applied Physics" written according to the syllabus of JNTU, Kakinada. He has published 28 research papers in refereed international and national journals and attended 14 conferences and seminars at national and international level. He was convener of two national level seminars and edited the proceedings of National Seminar on 'Renewable Energy Sources and other Technologies for Rural Development' sponsored by MNES, Govt. of India.

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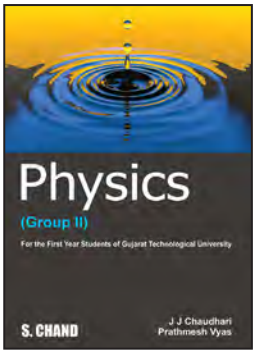
Central Electronics Ltd., Sahibabad in the LCD Division. He migrated to teaching profession in 1986 and joined the Kavikulguru Institute of Technology and Science, Maharashtra.

Dr J. J. Chaudhari M.Sc. (Physics), Ph.D. Assistant professor (Physics), Science and Humanity Department Vishwakarma Government Engineering College, Chandkheda, Ahmedabad, Gujrat, India.



Physics
Group II

Dr J J Chaudhary
Dr. Prathmesh Vyas

ISBN: 9789352839056
Code: 9789352839056
Price: ₹ 265 | Pages: 216
Size: 6.5" X 9.25" (Paperback)

About the Book

Physics has always been regarded as a fascinating subject by aspiring engineering students. This title covers the complete syllabus the subject in Gujarat Technological University. The basic concepts and derivations that are presented in this book are in a simple and lucid manner so that students do not find any difficulty in understating the content presented. In each module, the topics and their subtopics are logically arranged and elaborately discussed. In order to make the book more beneficial to the students, several solved examples are included in each module. At the end of each module several unsolved examples, short and long questions are included.

Key Features

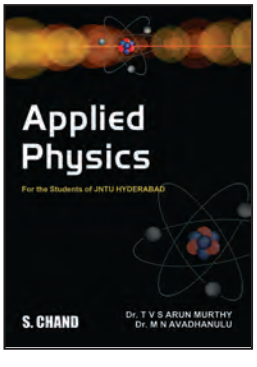
- Complete coverage of the new revised syllabus as per Gujarat Technological University.
- Simple and lucid style of content presentation.
- Large number of solved examples.

Contents

Module - I: ELECTRONIC MATERIALS, Module - II: SEMICONDUCTORS, Module -III LIGHT-SEMICONDUCTOR INTERACTION, Module - IV: MEASUREMENTS, Module - V: SUPERCONDUCTIVITY

Dr J J Chaudhari M.Sc. (Physics), Ph.D. Assistant professor (Physics), Science and Humanity Department Vishwakarma Government Engineering College, Chandkheda, Ahmedabad, Gujrat, India.

Book for JNTU Hyderabad



Applied Physics :

Dr. T.V.S Arun Murthy
Dr. M. N. Avadhanulu

ISBN: 9789355016201
Price: ₹ 275 | Pages: 320
Size: 6.5" X 9.25" (Paperback)

About the Book

The book is written to provide students with a distinct source of material. Their requirements are given top priority and the material is fashioned in a student-friendly style. This book explains basic principles of quantum physics and band theory of solids. It also presents fundamental concepts related to the dielectric, magnetic and energy materials in a concise and very simple way to easily grasp the concept. Each chapter is divided into smaller parts and sub-headings are provided to make the reading a pleasant journey from one interesting topic to another important topic. It offers ample coverage of Physics and Solids, Semiconductors and Devices, Dielectric, Magnetic and Energy Materials, Nanotechnology, and Laser and Fibre Optics.

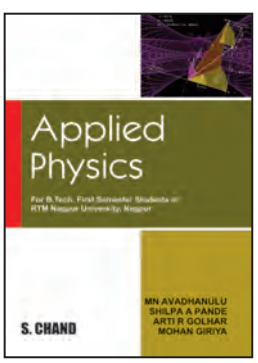
Key Features

- Concept of the book explained in lucid style and material has been arranged logically
- Close to 275 figures, tables and solved examples for easy understanding of concepts
- More than 600 questions strengthen the well-explained the concepts

Contents

1. Physics and Solids, 2. Semiconductors and Devices, 3. Dielectric, Magnetic and Energy Materials, 4. Nanotechnology, 5. Laser and Fibre Optics Index

Book for RTM Nagpur University



Applied Physics Semester-I:

M N Avadhanulu, Dr. Shilpa A. Pande, Dr. Arti R. Golhar & Dr. Mohar Giriya

ISBN: 9789355012173
Price: ₹ 235 | Pages: 232
Size: 6.5" X 9.25" (Paperback)

About the Book

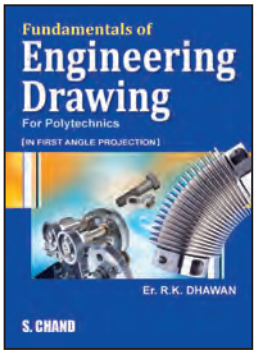
"Applied Physics" is written exclusively for B. Tech. First semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). It includes important topics such as Interference of Light, Diffraction, Compton Effect, de-Broglie's Hypothesis, Heisenberg Uncertainty Principle, Space and Cubic Lattice, Dispersion, Motion of Electron in Uniform Electric Field and Magnetic Field that help the student in learning the principles of Physics more

Key Features

- Includes 11 Practical Experiments to improve student's understanding and develop their skills
- Question bank of 200 questions with 75 examples strengthen the well-explained theoretical concepts

Contents

1. Wave Optics, 2. Quantum Mechanics, 3. Crystal Structure, 4. Optical Fibre, 5. Electron Optics • Practicals



Fundamentals of Engineering Drawing,

(In First Angle Projection)

R.K. Dhawan

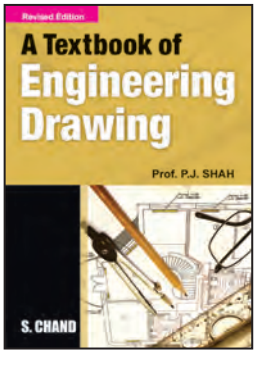
Multicolour Edition

ISBN: 9788121939263
Code: 1010000514
Price: ₹ 350 | Pages: 448
Size: 6.5" X 9.25" (Paperback)

Contents

Section-I: 1. Introduction and Drawing Instruments, 2. Layout of Drawing Sheet, 3. Conventions, 4. Lettering, 5. Dimensioning, 6. Scales, 7. Theory of Projection and Orthographic Projection, 8. Identification of Surfaces, 9. Missing Lines and Views, 10. Sectional Views, 11. Isometric Projections, 12. Freehand Sketching, 13. Electrical and Civil Engineering Symbols, Section-II: 1. Detail and Assembly Drawings, 2. Rivets and Riveted Joints, 3. Welding, 4. Screw Threads, 5. Fastenings (Nuts and Bolts), 6. Keys, Cotters and Joints, 7. Shaft Couplings, 8. Computer Aided Drafting, Section-III: 1. Projection of Points, 2. Projection of Straight Lines, 3. Projection of Planes, 4. Projection of Solids, 5. Intersection of Surfaces, 6. Development of Surfaces • *Model Test Papers – Three*

R K Dahwan, M.I.E., M.I.S.T.E, is Principal Ramgarhia Institute of Engineering & Technology Satnampura, Phagwara (Punjab Technical University, Jalandhar).



A Textbook of Engineering Drawing

P.J. Shah

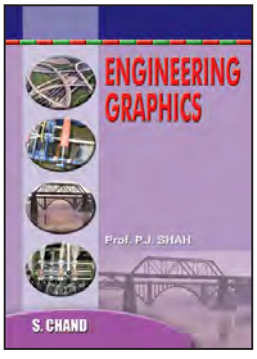
Multicolour Edition

ISBN: 9788121941822
Code: 1010000551
Price: ₹ 650 | Pages: 720
Size: 6.5" X 9.25" (Paperback)

Contents

1. Drafting Equipment, 2. Sheet Sizes, Scales, Lines and Lettering, 3. Geometrical Constructions, 4. Scales, 5. Loci of Points, 6. Engineering Curves, 7. Projections, Planes of Projections and System of Projections, 8. Orthographic Projections of Points, 9. Projection of Straight Lines, 10. Projections of Planes, 11. Projections of Point, Line and Plane on Auxiliary Planes, 12. Projections of Solids, 13. Sections of Solids, 14. Development of Surfaces of Solids, 15. Interpenetration of Solids of Lines/Curves of Penetration, 16. Orthographic Projections, 17. Sectional Orthographic Projections, 18. Orthographic Reading, 19. Isometric Projection/View/Drawing (Axonometric Projection), 20. Detail and Assembly Drawings, 21. Dimensioning, 22. Limits, Fits and Tolerances, 23. Fasteners, 24. Shaft Couplings, 25. Bearings, 26. Auto CAD • *Solutions to Exercises*

P J Shah is Former Professor, Mechanical Engineering, L.D. College of Engineering, Ahmedabad.



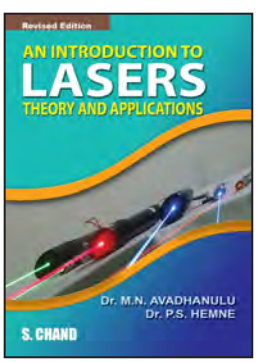
Engineering Graphics

P.J. Shah

ISBN: 9788121929677
Code: 1010000357
Price: ₹ 350 | Pages: 376
Size: 6.5" X 9.25" (Paperback)

Contents

1. Drafting Equipment, 2. Sheet Sizes, Scales, Lines and Lettering, 3. Scales, 4. Loci of Points, 5. Engineering Curves, 6. Projections, Planes of Projections and Systems of Projections, 7. Orthographic Projections of Points, 8. Projections of Straight Lines, 9. Projections of Planes, 10. Projections of Point, Line and Plane on Auxiliary Planes, 11. Projections of Solids, 12. Sections of Solids, 13. Development of Surfaces of Solids, 14. Interpenetration of Solids and Lines/Curves of Penetration



An Introduction to Lasers (Theory and Applications)

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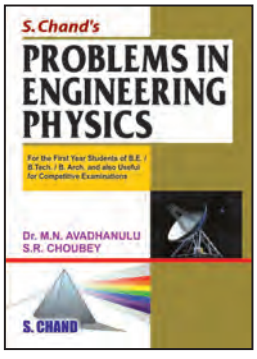

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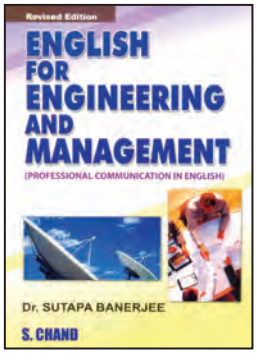

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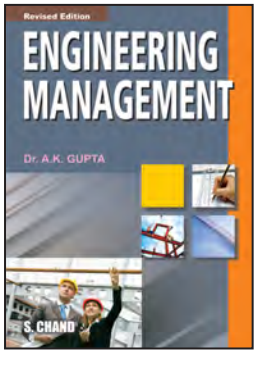

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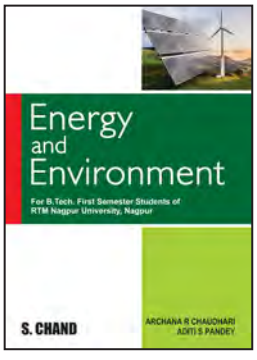
A K Gupta is Director, The Institution of Engineers (India).

RTM Nagpur University



Energy and Environment Semester-I

Dr. Archana R. Chaudhari & Dr. Aditi S. Pandey

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"Energy and Environment" is written exclusively for B. Tech. First semester students of various branches as per the revised syllabus of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (RTMNU, Nagpur). It includes important topics such as Solid Fuels, Dulong's and Goutal's formula for calculation of theoretical calorific value of solid fuel, Knocking, Photolysis of water, Liquid and Nuclear Fuels, Industrial Pollution, Cement and Petroleum Industry and Conducting and Biodegradable Polymers.

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- Every unit conclude ';points to remember' and ';interesting facts and information' for making students aware of facts and the latest developments
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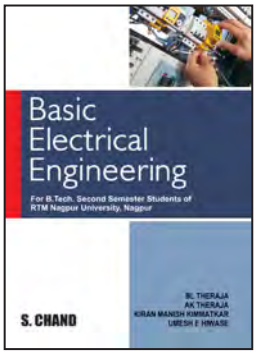

Basic Electrical Engineering: Semester-II (RTM) Nagpur University

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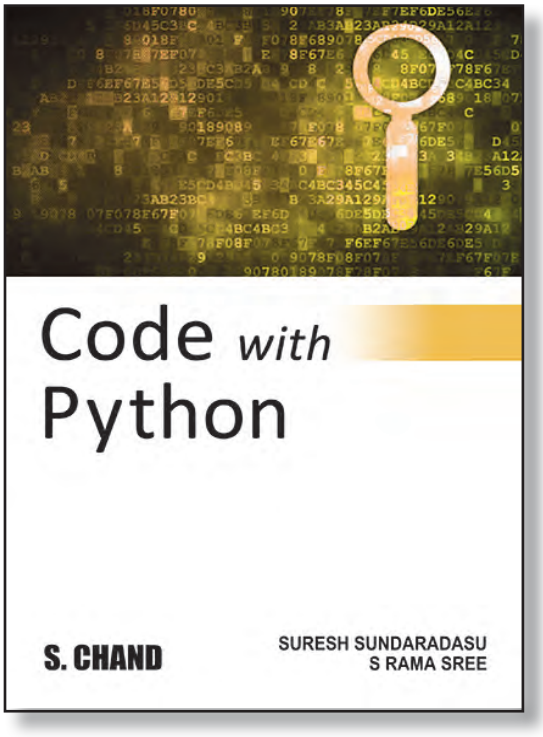
Contents

Dr. M N Avadhanulu initiated research on liquid crystals for the first time in Physics department of Andhra University in 1965 and obtained Ph.D. in 1973. In1976, he joined Central Electronics Ltd (CEL), Sahibabad in the LCD division. He migrated to teaching profession in1986 and joined Kavikulguru Institute of Technology and Science, Ramtek, Maharashtra. He occupied number of administrative posts in the institute such as HOD, Dean (student affairs) and Dean (academic affairs). He was elected and served as member of board of studies in Applied Sciences and Humanities under the faculty of Engg. & Tech, Nagpur University during 1991-1994 and was instrumental in modernizing the syllabus of Applied Physics for B.E. He has implemented number of innovative teaching methods to improve the appreciation of Physics by the Engineering students. He has ritten books for Engineering and Science Graduates as per the prescribed syllabus.



Code with Python

Suresh Sundaradasu & S Rama Sree

New

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This book is designed for the learners who can use this high-level programming language as an effective tool in solving of various mathematical, scientific, data analysis, and prediction analysis problems. Python is used to develop various applications of any stream and is not restricted only to computer science.

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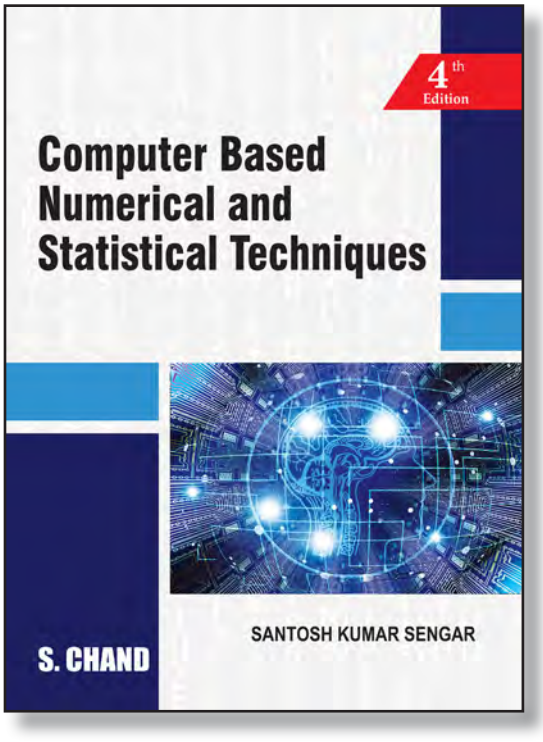

Computer Based Numerical and Statistical Techniques, 4e

Santosh Kumar Sengar

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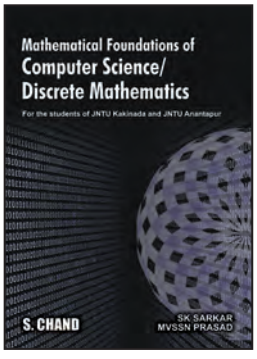
Santosh Kumar is PhD. (AMU Aligarh) and Associate Professor, Department of Mathematics and Statistics, School of Natural Science and Mathematics, University of Dodoma, Tanzania.



Mathematical Foundations of Computer Science /Discrete Mathematics: For JNTUK and JNTUA

Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad

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Mathematical Foundations of Computer Science/Discrete Mathematics caters to all students of JNTU Kakinada and JNTU Anantapur who study the subject. Major topics including, but not limited to Set Theory, Relations, Functions, Algebraic Structures, Combinatorics and Number Theory have been explained in detail along with the examples which are based on the latest examinations of various institutions.

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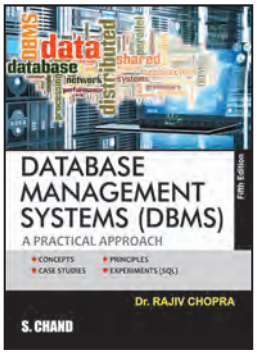
Dr. M.V.S.S.N. Prasad: M.Sc., PGDCA, Ph.D., Head of General Section Department of Technical Education Govt. of A.P.



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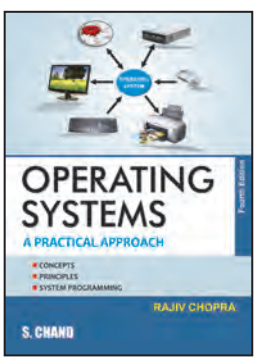
Rajiv Chopra is Associate Professor, CSE Department, Guru Tegh Bahadur Institute of Technology (GTBIT), affiliated to Guru Gobind Singh Indraprastha University, New Delhi. He is also a CCEH – (Crezone Certified Ethical Hacker).



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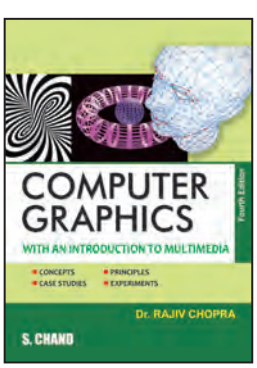
Rajiv Chopra is Associate Professor, CSE Department, Guru Tegh Bahadur Institute of Technology (GTBIT), affiliated to Guru Gobind Singh Indraprastha University, New Delhi. He is also a CCEH – (Crezone Certified Ethical Hacker).



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& Surfaces, Unit-IV: 15. Animation, 16. Solid Modelling, 17. GKS, Unit-V: 18. Multimedia, 19. Multimedia Authoring Tools, 20. Case Studies; a. Python Graphics; b. Director • *Appendices: A. Syllabus, B. Question Papers, C. Glossary, D. Experiments in CG Lab, E. Experiments in Multimedia Lab, F. Projects (CG Lab), G. Bibliography*

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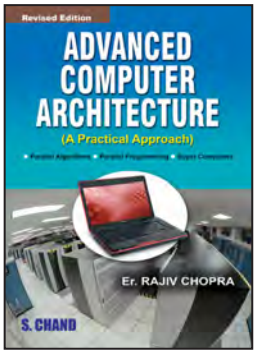

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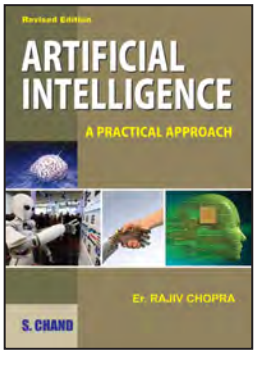

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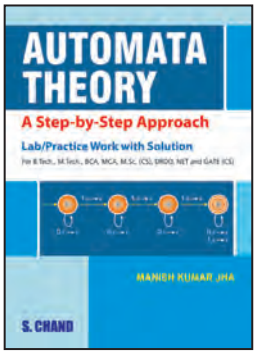

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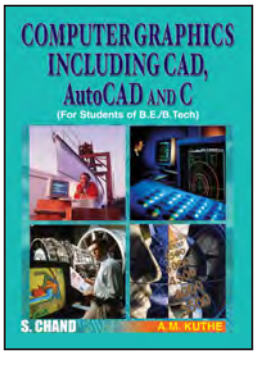
Manish Kumar Jha is Assistant Professor, GD Goenka World Institute, Lancaster University.



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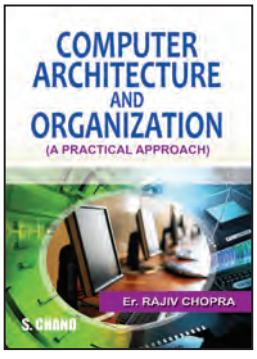

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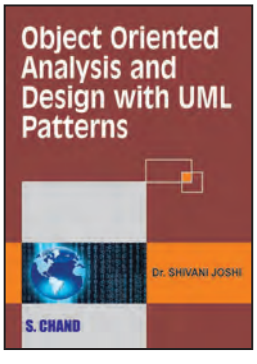
Rajiv Chopra is Associate Professor, CSE Department, Guru Tegh Bahadur Institute of Technology (GTBIT), affiliated to Guru Gobind Singh Indraprastha University, New Delhi. He is also a CCEH – (Crezone Certified Ethical Hacker).



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Shivani Joshi

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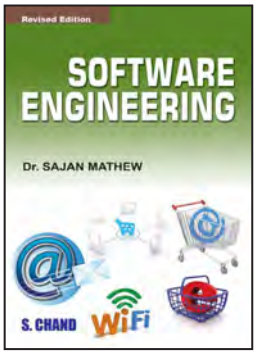
Shivani Joshi is PhD and Associate Professor, Guru Nanak Institute of Management, New Delhi (Affiliated to Guru Gobind Singh Indraprastha University, Delhi).



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Sajan Mathew

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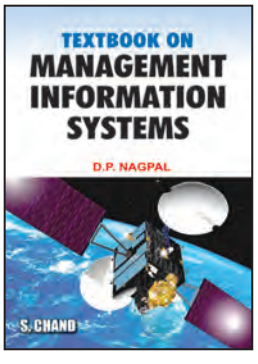
Sajan Mathew is Professor of Information Systems, Alliance University, Bangalore.



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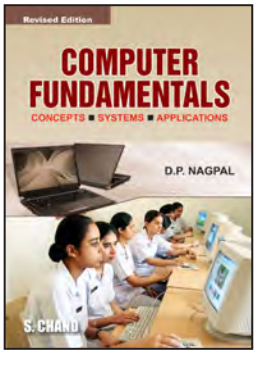

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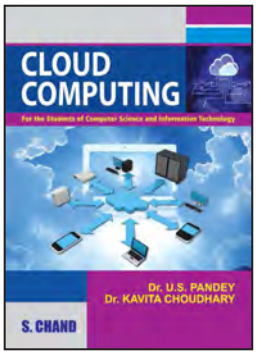

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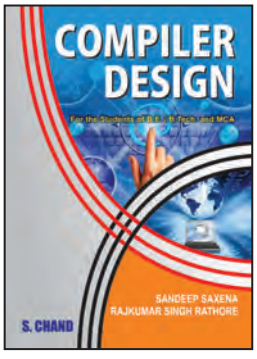

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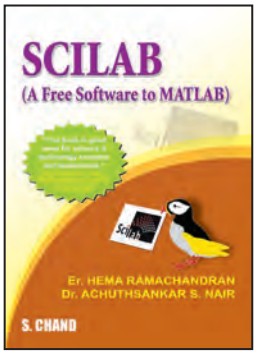

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