



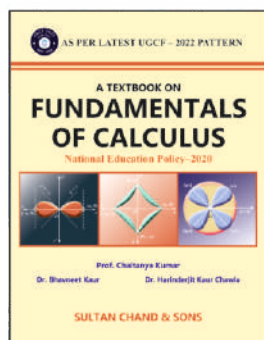
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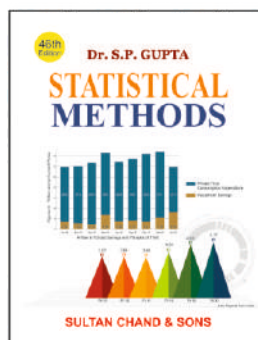
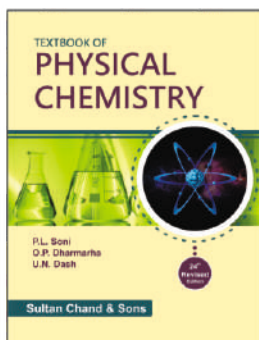


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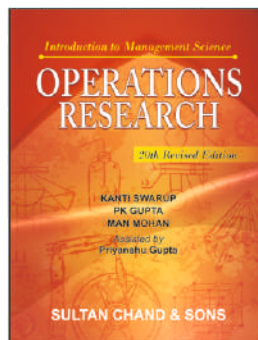
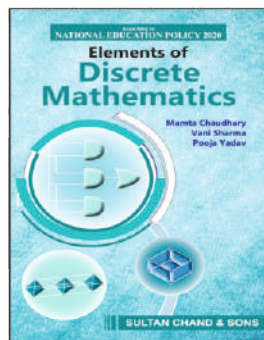
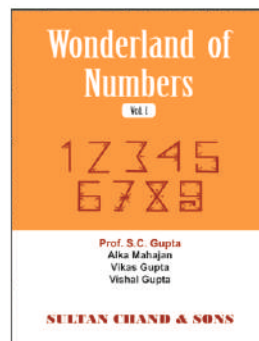
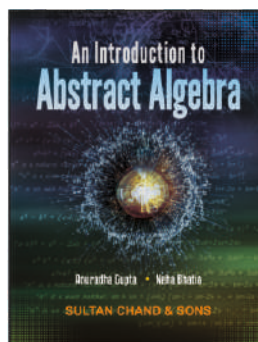
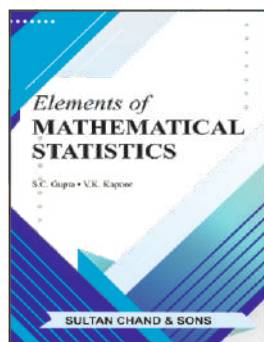
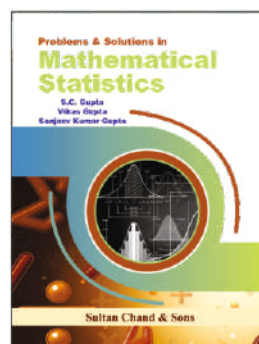
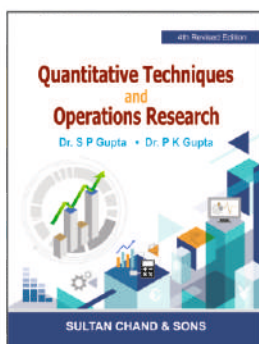
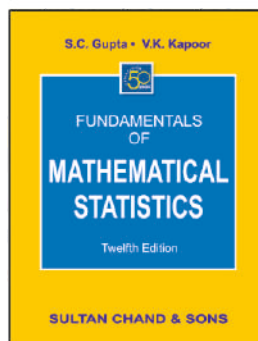
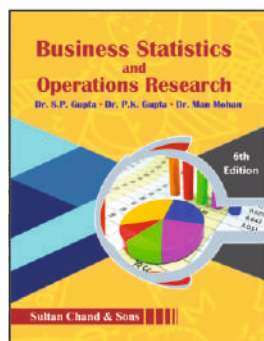
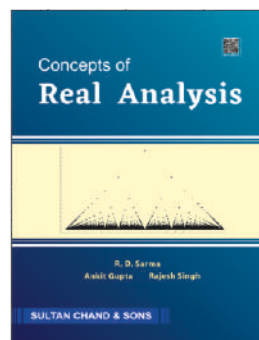
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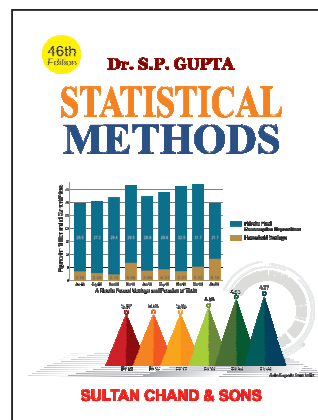
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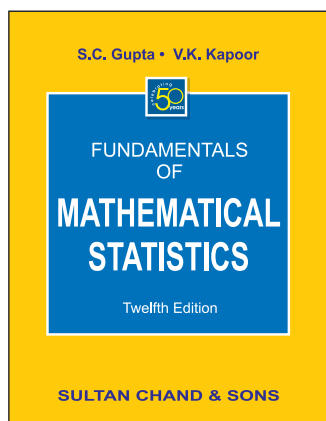
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S.C. Gupta • V.K. Kapoor

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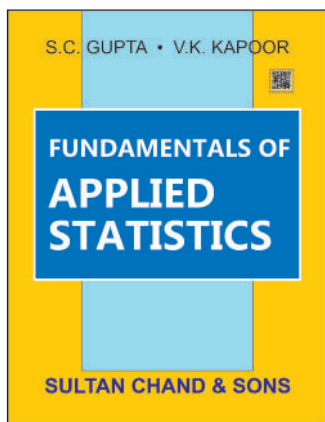


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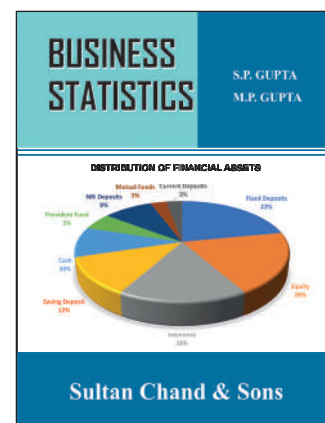
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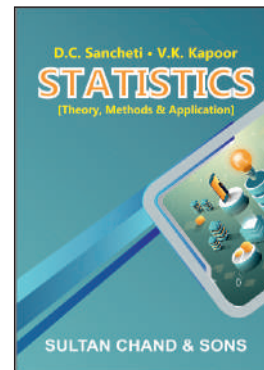
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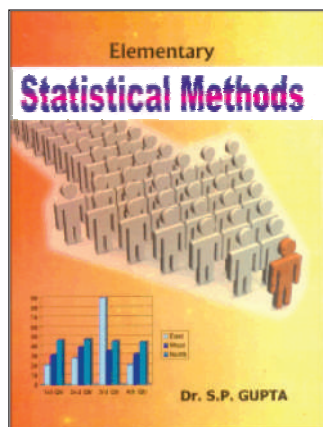
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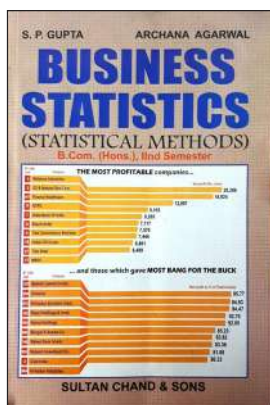
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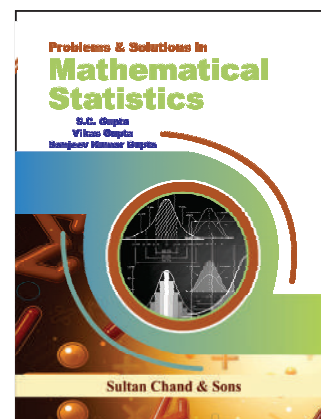
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Appendix 1 – Numerical Tables

Appendix 2 – Bibliography.



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सांख्यिकी के सिद्धान्त

डॉ. एस.पी. गुप्ता
उमा गुप्ता

सुलतान चन्द एण्ड सन्स

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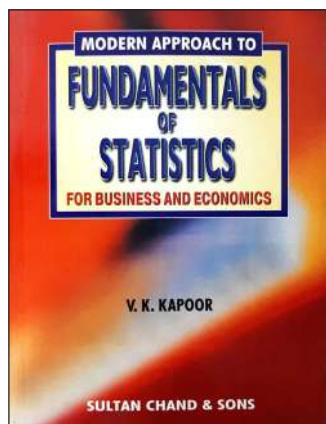
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For Business and Economics

V.K. Kapoor

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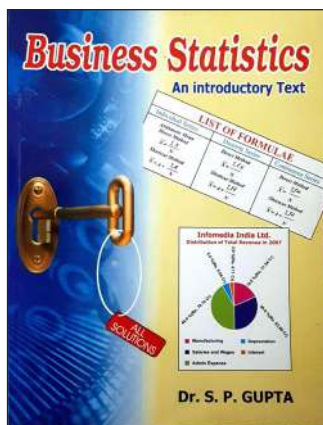
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Business Statistics

An Introductory Text

Dr. S.P. Gupta



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- Introduction to Statistics
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- Measures of Variation
- Skewness, Moments and Kurtosis
- Correlation Analysis
- Regression Analysis
- Index Numbers
- Analysis of Time Series
- Probability Theory
- Small Sampling Theory
- Chi-Square Test
- Analysis of Variance
- Statistical Quality Control.

Appendix

*Symbols, Abbreviation and Formulae
Statistical Tables.*

Edition: 1st, 2009

Pages: viii + 608

ISBN: 978-81-8054-644-0; (TC 1161)

MRP: ₹ 200.00

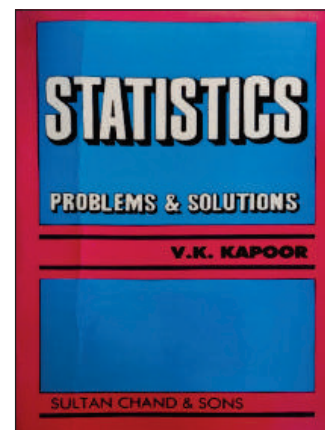
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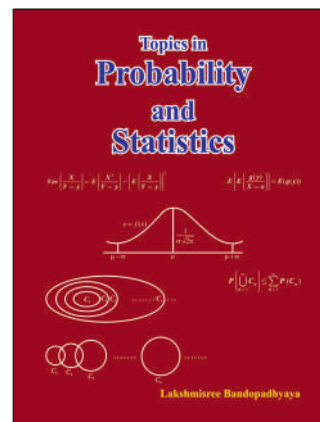
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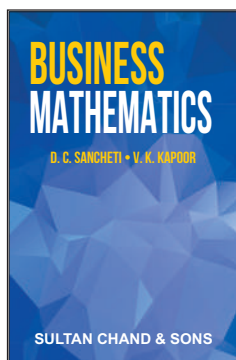
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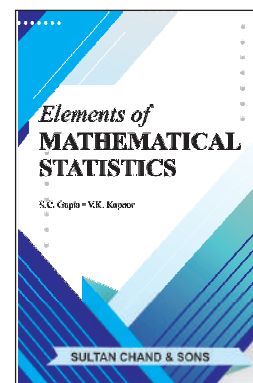
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- Theoretical Continuous Distributions
- Curve Fitting and Principle of Least Squares
- Correlation and Regression
- Theory of Attributes
- Sampling and Large Sample Tests
- Chi-square Distribution
- Exact, Sampling Distribution
- Theory of Estimation
- Testing of Hypothesis
- Analysis of Variance
- Design of Experiments
- Design of Sample Surveys.

Tables



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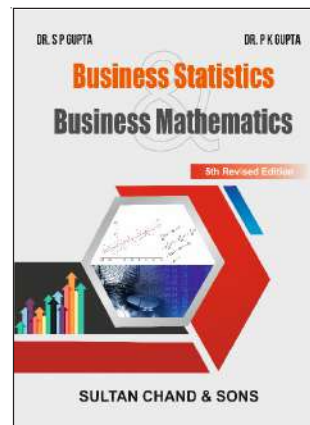
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Appendix

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Appendix



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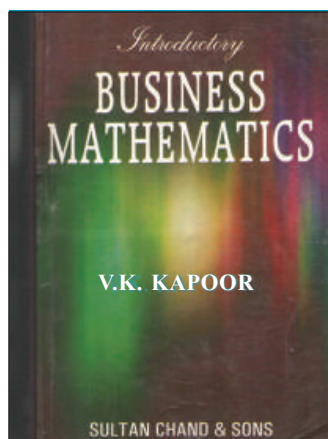
Introductory Business Mathematics

V.K. Kapoor

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- Matrices – II (Applications)
- Functions
- Limit & Continuity
- Differentiation – I (Basic Concepts)
- Differentiation – II (Applications)
- Partial Differentiation – I (Basic Concepts)
- Partial Differentiation – II (Applications)
- Integration – I (Basic Concepts)
- Integration – II (Applications)
- Linear Programming – I (Formulation & Graphic Solution Method)
- Linear Programming – II (Simplex Method)
- Linear Programming – III (Duality)
- Mathematics of Finance – I (Compound Interest)
- Mathematics of Finance – II (Annuities Certain)
- The Transportation and Assignment Problems.

Appendix



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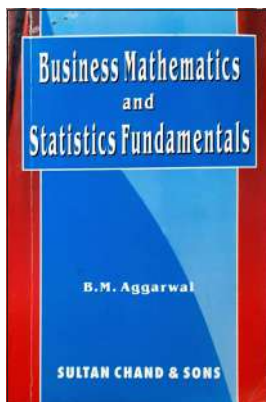
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Statistics – Frequency Distribution • Measures of Central Tendency • Measures of Dispersion • Moments, Skewness and Kurtosis • Miscellaneous Solve Examples – II.

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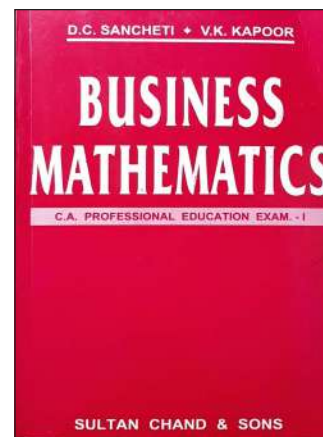
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D.C. Sancheti • V.K. Kapoor

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- Limit & Continuity
- Differentiation
- Integration
- Mathematics of Finance – I
- Mathematics of Finance – II

Appendix.



Edition: 8th, 2010

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Business Statistics and Operations Research

Dr. S.P. Gupta • Dr. P.K. Gupta • Dr. Man Mohan

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Appendix

Operations Research – Operations Research — An Overview • Linear Programming • Linear Programming Problem – Solution Methods • Duality in Linear Programming • Transportation Problem • Assignment Problem • Network Analysis — PERT/CPM.



Edition: 6th, 2022

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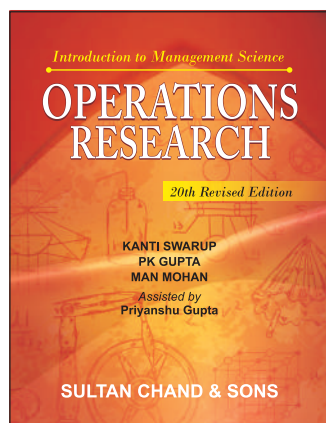
Operations Research

Kanti Swarup • P.K. Gupta • Man Mohan

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Operations Research – An Overview • Linear Programming • Solving Linear Programming Problems • Theory of Simplex Method • Duality in Linear Programming • Post – optional Analysis • Transportation Problem • Assignment Problem • Other Methods of Solving Linear Programming Problems • Operations Scheduling • Integer Programming • Goal Programming • Scheduling Techniques • Resources Analysis in Project Management • Dynamic Programming • Network Routing Problems • Probability • Markov Analysis • Decision Theory • Queuing Theory • Replacement Decisions • Inventory Management – Deterministic • Inventory Management – Probabilistic • Simulation • Non-Linear Programming and Optimization • Solving Non-Linear Programming Problems • Geometric Programming • Information Theory • Investment Analysis and Break-even Analysis • Business Forecasting • Learning Curve Theory • Statistical Quality Control.

Some Case Problems, Appendices, Index.



Edition: 20th, 2022

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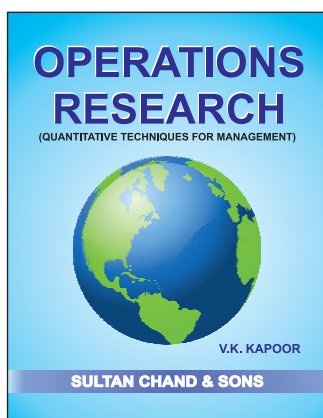
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Operations Research (Quantitative Techniques for Management)

V.K. Kapoor



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- Linear Programming – III: Duality and Sensitivity Analysis
- Transportation Problem
- Assignment Problem
- Sequencing Problem
- Replacement Theory
- Queuing Theory
- Decision Analysis
- Theory of Games
- Inventory Management
- Project Network Analysis: CPM/PERT
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- Goal Integer and Dynamic Programming
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Edition: 9th, 2014

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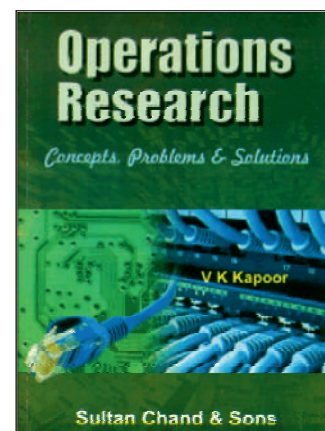
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V.K. Kapoor

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- Operation Research: An Overview
- Linear Programming-I: Model Formulation
- Linear Programming-II: Graphical Method
- Linear Programming-III: Simplex Method & Duality
- Transportation Problem
- Assignment Problem
- Replacement Theory
- Sequencing Problem
- Decision Theory
- Inventory Management
- Queuing Theory
- Network Analysis: CPM & PERT
- Game Theory
- Simulation.



Edition: 5th, 2011

Pages: xvi + 640

ISBN: 978-81-8054-854-3 (TC 532)

MRP: ₹ 475.00

Quantitative Techniques and Operations Research

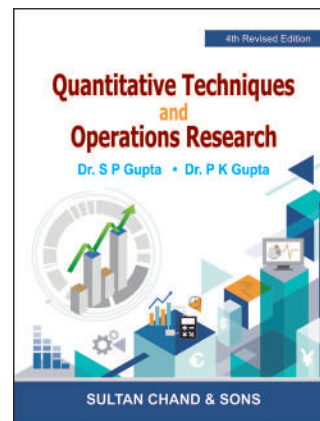
Dr. S.P. Gupta • Dr. P.K. Gupta

Contents

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Questions Papers, Appendix.

Part II: Operations Research – Managerial Decision-making and Operations Research • Linear Programming • Linear Programming Problem – Solution Methods • Duality in Linear Programming • Transportation Problem • Assignment Problem • Operations Scheduling.



Edition: 4th, 2022

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ISBN: 978-93-5161-182-0 (TC 1017)

MRP: ₹ 495.00

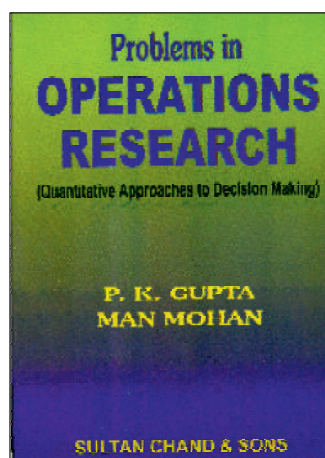
Problems in Operations Research (Quantitative Approaches to Decision Making)

P.K. Gupta • Man Mohan

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Applied Operations Research – An Overview • Linear Programming – Model Formulation • Linear Programming Problem – Graphical Solution • Linear Programming Problem – Standard Form & Basic Solution • Simplex Method – I • Simplex Method – II • Simplex Method – III • Degeneracy in Linear Programming • Duality in Linear Programming • Dual Simplex Method • Revised Simplex Method • Bounded Variable Problem • Integer Programming • Post Optimal Analysis • Parametric Linear Programming • Transportation and Transshipment Problems • Assignment Problems • Sequencing Problems • Dynamic Programming • Decision Analysis • Game Theory • Markov Analysis • Queueing Problems • Inventory Models • Replacement Problems • Non-Linear Programming • Quadratic Programming • Network Scheduling by PERT/CPM • Resource Analysis in Network Scheduling • Simulation • Investment Analysis and Break-Even Analysis • Business Forecasting • Network Routing Problems • Learning Curve Theory • Information Theory.

Appendix : Statistical and Other Tables.



Edition: 14th, 2014

Pages: viii + 936

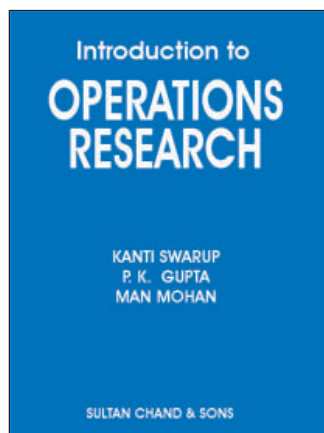
ISBN: 978-93-5161-007-6 (TC 495)

MRP: ₹ 550.00



Introduction to Operations Research

Kanti Swarup • P.K. Gupta • Man Mohan



Contents

- Operations Research – An Overview
- The Linear Programming Problem
- The Simplex Method
- Duality in Linear Programming
- Integer Programming
- The Transportation Problem
- The Assignment Problem
- Sequencing Problems
- Dynamic Programming
- Game Theory
- Queuing Theory
- Inventory Problems
- Replacement Problem
- Decision Analysis
- Markov Analysis
- Network Analysis
- Simulation.

*Appendices Statistical Tables
Answers
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Edition: 5th, 2005

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ISBN: 978-81-8054-351-X; (TC 526)

MRP: ₹ 80.00

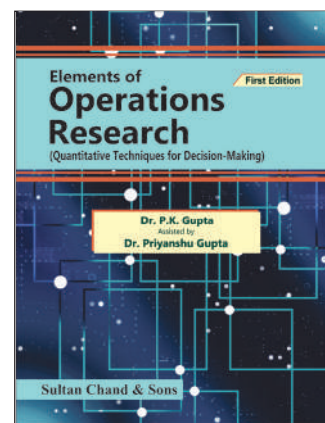
Elements of Operations Research

(Quantitative Techniques for Decision-Making)

Dr. P.K. Gupta

Contents

- Decision-Making and Operations Research
- Linear Programming
- Linear Programming Problem – Solution Methods
- Duality in Linear Programming
- Transportation Problem
- Assignment Problem
- Network Analysis – PERT/CPM
- Decision Theory
- Game Theory
- Queuing Models
- Inventory Control
- Replacement Decisions
- Sequencing: Operations Scheduling



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R.D. Sarma • Ankit Gupta • Rajesh Singh

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- Sequence of Functions
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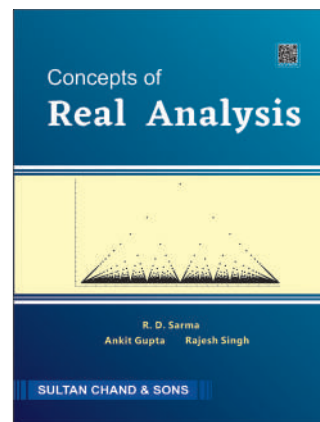
Appendix A: Tools for Curve Tracing

Part – II

- Limits of Functions
- Continuous Functions
- Differentiation
- Applications of Derivatives
- Appendix B: Tracing of Rational and Polar Curves*
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- Bibliography*
- Index.*

Part – III

- Riemann Integration
- Improper Integrals



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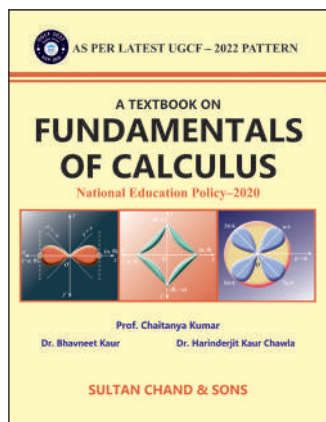
A Textbook on Fundamentals of Calculus

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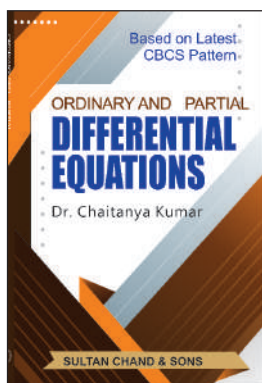
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- Total Differential Equations
- Partial Differential Equations – Formation, Solution of First Order Equations
- Non-Linear Partial Differential Equations of Order One.

Examination Papers.

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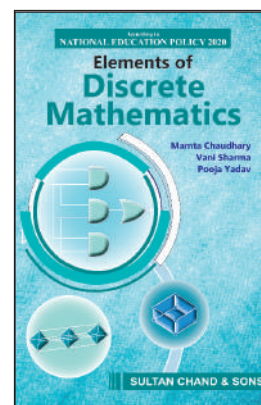
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*Miscellaneous Questions
Question Papers.*



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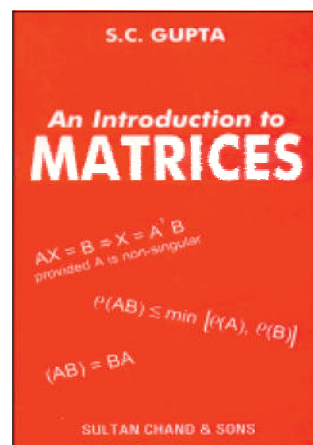
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- The Characteristic Roots and the Characteristic Equation of a Matrix
- Quadratic Forms.

Bibliography
Index.



Edition: 1st, 1978

Pages: viii + 304

ISBN: 978-81-8054-926-7; (TC 503)

MRP: ₹ 125.00

Business Mathematics

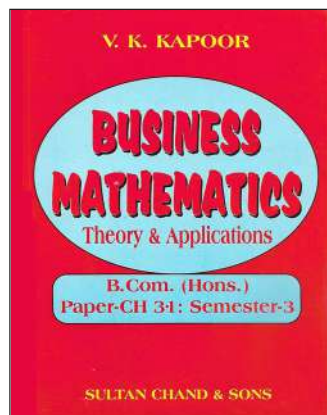
Theory and Applications

B.Com. (Hons.) Paper-CH 3.1: Semester-3

V.K. Kapoor

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- Applications of Matrices
- Functions
- Limits and Continuity
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- Applications of Differentiation to Business & Economics
- Partial Differentiation (Basic Concepts)
- Applications of Partial Differentiation
- Integration (Basic Methodology)
- Application of Integration
- Mathematics of Finance
- Linear Programming-I (Formulation and Graphic Solution Method)
- Linear Programming-II (Simplex Method)
- Linear Programming-III (Duality).



Edition: 19th, 2012

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Topics in Linear Programming and Games Theory

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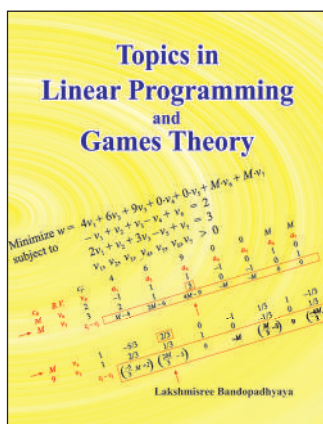
Contents

Section 1 Preliminaries: Linear Programming Problems

Section 2 Solution Techniques: Simplex Algorithm

Section 3 Applications: Concept of Duality
 • Transportation Problems
 • Assignment Problems

Section 4 Games: Games Theory.



Edition: 3rd, 2016

Pages: xviii + 334

ISBN: 978-81-7211-226-2

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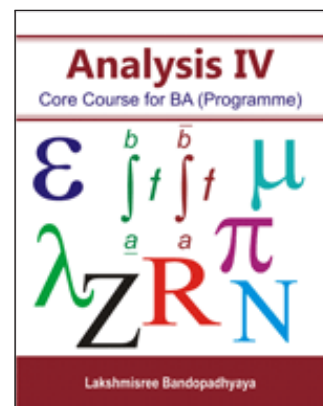
Analysis IV

Core Course for BA (Programme)

Lakshmisree Bandopadhyaya

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- I. Properties of Real Numbers, Continuous Functions and Uniformly Continuous Functions
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MRP: ₹ 200.00

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for B.Sc. (Hons.), First Semester as per Syllabus of University of Delhi

Pradip Narain • Tajender Singh Saluja

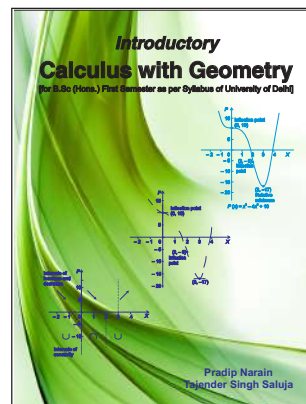
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• Application of Derivatives • Curve Tracing in Cartesian Coordinates
• L' Hôpital's Rule • Optimization in Business, Economics, and the Life Sciences • Parametric Representation of Curves and Their Tracing • Polar Coordinates and Tracing of Polar Curves.

Section II – Reduction Formulae • Volumes • Arc Length and Surface Area.

Section III – Conic Sections and their Tracing • Rotation of Axes.

Section IV – Physical Quantities • Introduction to Vector-Valued Functions and Graphs • Calculus of Vector-Valued Functions • Modeling Ballistics and Planetary Motion • Curvature, Tangential and Normal Components of Acceleration.



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Problems in Mathematics

For ICAI Professional Examination – I

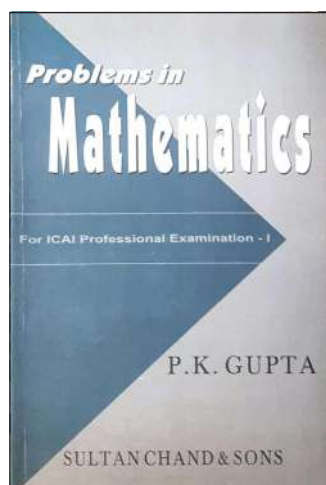
P.K. Gupta

Contents

- Functions
- Graph of Linear Inequalities
- Matrices
- Applications of Matrices
- Progressions
- Applications of Progression
- Permutation and Combinations
- Limits and Continuity
- Simple Differentiation
- Applications of Derivatives
- Simple Integration
- Applications of Integration
- Mathematics of Finances.

Appendix A: Sample Papers and their Solutions

*Appendix B: Tables
Question Paper with Solution.*



Edition: 1st, 2004

Pages: xvi + 512

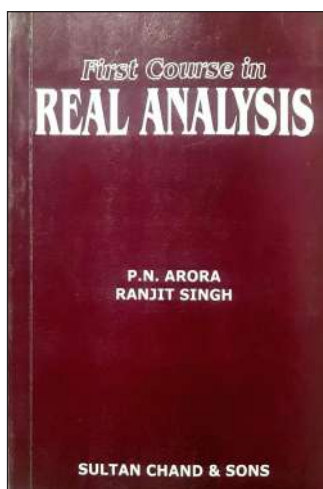
ISBN: 978-81-8054-168-1 (TC 982)

MRP: ₹ 135.00



First Course in Real Analysis

P.N. Arora • Ranjit Singh



Contents

- Preliminaries
- Real Numbers
- Neighbourhood and Limit Points
- Sequences
- Infinite Series
- Limits and Continuity
- Derivatives
- Mean Value Theorems and Power Series
- Maxima and Minima
- Indeterminate Forms and L'Hospital's Rule
- On the Series of Arbitrary Terms.

Delhi University Examination Papers.

Edition: 5th, 2006

Pages: xii + 388

ISBN: 978-81-8054-443-5 (TC 477)

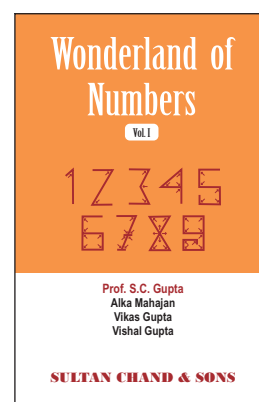
MRP: ₹ 85.00

Wonderland of Numbers – Vol. I

Prof. S.C. Gupta • Alka Mahajan • Vikas Gupta • Vishal Gupta

Contents

- Numbers – Meaning and Classification
- Digits: (0, 1, 2, ..., 8, 9)
- Mathematical Tricks
- Some Interesting Numbers
- Arithmetic Potpourri (Marvels in Arithmetic)
- Square Numbers
- Cube Numbers
- Srinivas Aiyenger Ramanujan (FRS) and His Contributions to Mathematics.



Edition: 1st, 2022

Pages: xvi + 400

ISBN: 978-93-91820-05-3 (TC 1248)

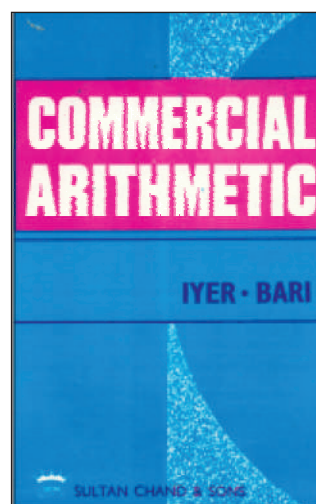
MRP: ₹ 400.00

Commercial Arithmetic

B.G. Iyer • S.A. Bari

Contents

- Rapid Methods of Calculations
- Ratio, Proportion and Percentage
- Commission, Brokerage and Discount
- Insolvency
- Rates and Taxes
- Insurance
- Average Due Date
- Partnership
- Joint Stock Companies
- Foreign Bills
- Indices and Logarithms
- Simple and Compound Interest
- Installment Buying
- Simple Annuities
- Present Worth and Discount
- Profit and Loss
- Stocks and Shares
- Mensuration-Areas
- Mensuration-Volumes
- Variation
- Time, Work and Speed
- Approximation and Errors.
- Miscellaneous Topics*
- Answer*
- Examination Papers*
- Tables.*



Edition: 10th, 1984

Pages: vi + 366

ISBN: 978-81-8054-827-7 (TC 523)

MRP: ₹ 175.00

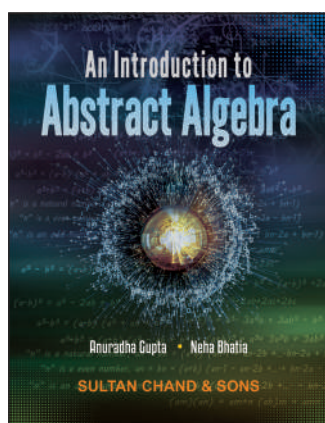
An Introduction to Abstract Algebra

Anuradha Gupta • Neha Bhatia

Contents

- Sets
- Numbers
- Permutations
- Groups
- Rings
- Vector Spaces
- Examination Papers on Group Theory
- Examination Papers on Rings and Vector Spaces.

Bibliography
Index.



Edition: 1st, 2021

Pages: xii + 284

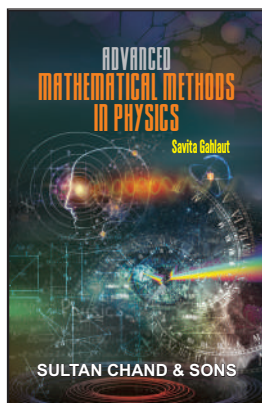
ISBN: 978-81-954071-8-7; (TC 1255)

MRP: ₹ 250.00



Advanced Mathematical Methods in Physics

Savita Gahlaut



Contents

- Sets, Relations and Operations
- Matrices and Determinants
- Groups
- Homomorphism and Isomorphism
- Vector Spaces
- Linear Transformations
- Linear Transformations and Matrices
- Eigenvalue Problems and Diagonalization
- Function of Matrices
- Cartesian Tensors
- Physical Tensors.

Question Papers
Index.

Edition: 1st, 2021

Pages: xvi + 368

ISBN: 978-93-91820-04-6; (TC 1250)

MRP: ₹ 250.00

Mathematical Physics

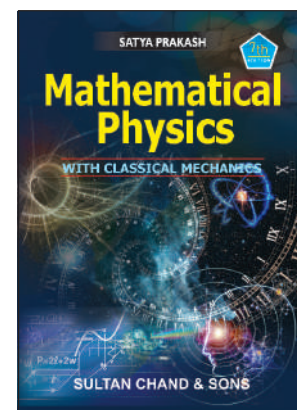
With Classical Mechanics

Satya Prakash

Contents

- Vectors (with applications)
- Matrices
- Tensors
- Beta-gamma and Error Functions
- Infinite series
- Complex Variables
- Differential Equations and Special Functions
- Fourier Series and Integrals
- Partial Differential Equations in Physics
- Fourier's and Laplace's Integral Transforms
- Dirac Delta Function & Green's Function
- Probability, Statistics and Theory of Errors
- Group Theory
- Numerical Analysis
- Classical Mechanics
- Special Theory of Relativity
- Quantum Mechanics
- Statistical Mechanics.

University Question Papers
Index.



Edition: 7th, 2021

Pages: xl + 1,688

ISBN: 978- 81-8054-928-1; (TC 587)

MRP: ₹ 845.00



A Textbook of Practical Physics

M.N. Srinivasan • S. Balasubramanian • R. Ranganathan

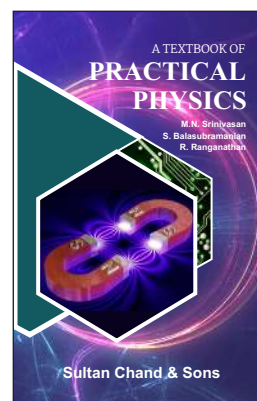
Contents

- Mechanics and Properties of Matter
- Heat
- Sound
- Light
- Magnetism
- Electro-Magnetism & Electricity
- Electronics.

Appendix

University Questions

Data of Physical Constants.



Edition: 1st, 1990

Pages: xii + 388

ISBN: 978-81-8054-744-7; (TC 601)

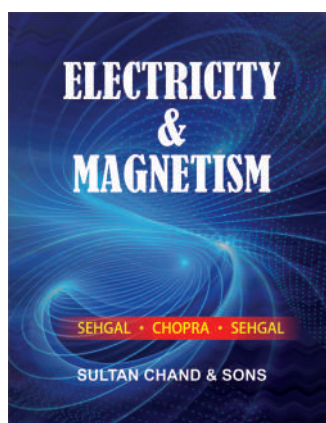
MRP: ₹ 250.00

Electricity and Magnetism

D.L. Sehgal • K.L. Chopra • N.K. Sehgal

Contents

- Vectors
- Electrical Units
- The Fundamental Principles of Electrostatics
- The Electric Field
- Electric Potential
- Systems of Conductors, Capacitance
- Electrostatic Energy
- The General Electrostatic Problem
- Dielectrics
- Steady Currents
- Magnetic Effects of Currents
- Electrical Instruments
- Measurement of Resistance and Potential
- Heating Effects of Currents
- Thermoelectricity
- Electromagnetic Induction
- Transient Currents
- Alternating Currents
- Alternating Current Bridges
- Network Analysis
- Magnetic Properties of Materials
- Magnetic Circuits
- Maxwell's Equations and Electromagnetic Waves.



Edition: 7th, 2020

Pages: xxiv + 960

ISBN: 978-93-5161-144-8 (TC 590)

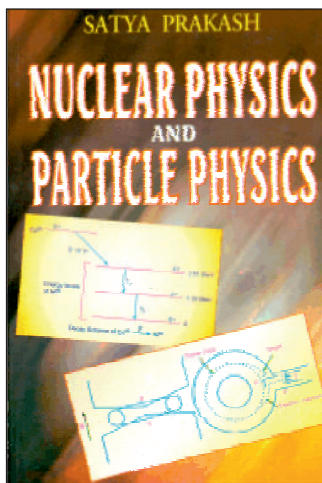
MRP: ₹ 540.00



Nuclear Physics and Particle Physics

Satya Prakash

Contents



- General Properties of Atomic Nuclei
- Two Body Problem and Nuclear Forces
- Radioactivity
- Alpha – Decay
- Beta – Decay
- Gamma Transitions
- Nuclear Models
- Nuclear Reactions
- Nuclear Energy; Nuclear Fission and Fusion
- Nuclear Instrumentation – Nuclear Accelerations and Detectors
- Elementary Particle Physics
- Cosmic Rays.

Edition: 1st, 2005

Pages: xvi + 480

ISBN: 978- 81-8054-993-9; (TC 589)

MRP: ₹ 400.00

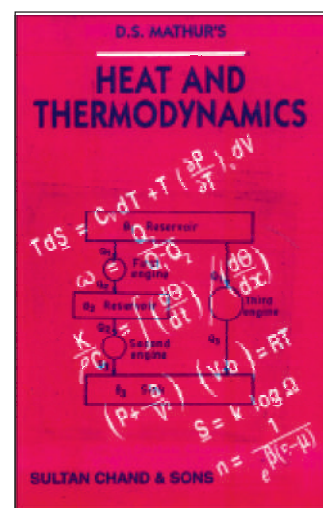
Heat & Thermodynamics

D.S. Mathur

Contents

- Heat and Temperature – Thermometry
- Thermal Expansion
- Calorimetry
- Change of State
- Kinetic Theory of Heat
- Kinetic Theory of Gases
- Continuity of State – Study of Real Gases
- Thermodynamics
- Entropy
- Thermodynamic Relations
- Production of Low Temperatures
- Transmission of Heat – Conduction
- Transference of Heat – Convection
- Radiation of Heat
- Elements of Statistical Mechanics
- Classical and Quantum Statistics.

Appendices



Edition: 5th, 2004

Pages: xx + 664

ISBN: 978-81-8054-259-9; (TC 577)

MRP: ₹ 350.00

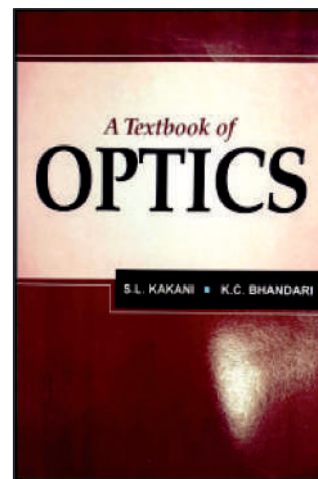
A Textbook of Optics

S.L. Kakani • K.C. Bhandari

Contents

Introduction: Nature of Light • Electromagnetic Waves • Interference (Division of Wavefront, Division of Amplitude) • Lasers and Holography (Quantum Optics) • Diffraction • Polarisation of Light • (Double Refraction, Production and Analysis of Polarised Light, Rotation of Plane of Polarisation) • Non-Linear Optics • Cardinal Point of a System of Coaxial Lenses • Dispersion of Light • Velocity of Light • Fermat's Principle • Photometry • Fibre Optics • Optical Instruments • Quantum Nature of Light • Matter Waves and Uncertainty Principle • Atomic Structure • Optical Phenomena • Elements of Crystal Structure and X-Rays • Special Theory of Relativity • Wave Mechanics.

Suggested Readings.



Edition: 15th, 2002

Pages: xvi + 564

ISBN: 978-93-5161-040-3; (TC 572)

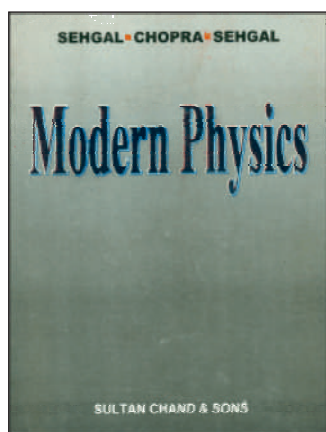
MRP: ₹ 395.00

Modern Physics

N.K. Sehgal • K.L. Chopra • D.L. Sehgal

Contents

Unit I – Electrical Conduction in Gases; Discharge Tube Phenomenon
Unit II – Cathode Rays • **Unit III** – Positive Rays and mass Spectrographs
Unit IV – Structure of the Atom • **Unit V** – The Vector Atom Model
Unit VI – Particle Properties of Waves • **Unit VII** – Wave nature of Matter
Unit VIII – Introduction to Quantum Mechanics • **Unit IX** – Application of Quantum Mechanics to 'Free State' Problems • **Unit X** – Application of Quantum Mechanics to Bound State Problems • **Unit XI** – The Nucleus
Unit XII – The Phenomenon of Radioactivity • **Unit XIII** – Introductory Statistical Physics • **Unit XIV** – Theory of Relativity • **Unit XV** – General Features of the Electron Tubes • **Unit XVI** – Rectifiers and Filters
Unit XVII – Amplifiers • **Unit XVIII** – Oscillators • **Unit XIX** – Semiconductors • **Unit XX** – Radio Communication • **Unit XXI** – Practical Electronic Devices.



Edition: 9th, 2004

Pages: xxviii + 748

ISBN: 978-81-8054-952-6; (TC 591)

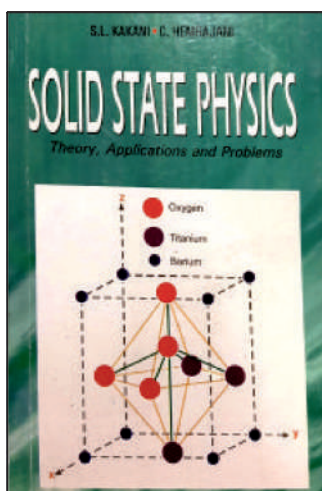
MRP: ₹ 350.00



Solid State Physics

Theory, Applications and Problems

S.L. Kakani • C. Hemarajani



Contents

Crystal Structure • Crystal Diffraction and The Reciprocal Lattice • Crystal Binding • Elastic Properties of Solids • Lattice Vibrations • Thermal Properties of Solids • Free Electron Theory of Metals • Band Theory of Metals • Semiconductors and Devices • Magnetism and Magnetic Materials • Dielectrics and Ferroelectrics, Optical Properties of Solids • Imperfections in Crystals • Magnetic Resonance • Super – conductivity • New Superconductors and High Temperature Superconductivity • Applications of Superconductivity • Superfluidity • Mossbauer Effect • Masers and Lasers • Optical Fiber • Quantum Statistics • Experimental Techniques • Group Theory.

*Appendices A to C
Suggested Reading
Subject Index.*

Edition: 4th, 2005

Pages: xviii + 1,056

ISBN: 978-81-8054-399-4; (TC 574)

MRP: ₹ 500.00

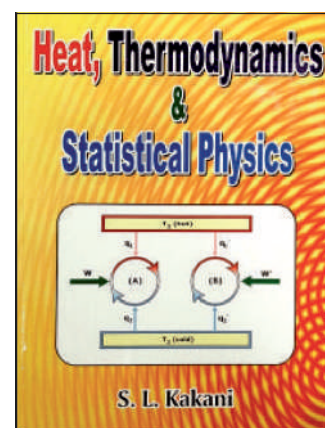
Heat, Thermodynamics & Statistical Physics

S.L. Kakani

Contents

Temperature and Thermometry • Ideal Gas, Isothermal and Adiabatic Processes, Specific Heat • Zeroth Law and First Law of Thermodynamics • Second Law of Thermodynamics and Entropy • Maxwell's Thermodynamic Relations and Phase Transition • Liquefaction of Gases and Production of Very Low Temperatures • Thermal Radiations, Quantum Theory of Radiations and Pyrometers • Quantum Theory of Specific Heats • Heat (Thermal) Conduction • Kinetic Theory of Gases and Transport Phenomena • Statistical Physics: Classical Statistics and M.B., F.D. and B.E. Distribution Laws • Quantum Statistics • Energy Equipartition Principle, Partition Functions and Ensembles • Statistical Mechanics of M.B., B.E. and F.D. Systems, Independent and Dependent Particle Systems and Imperfect Gases • Fluctuations and Non-Equilibrium States • Phase Transitions • The Ising Model.

Appendices



Edition: 2nd, 2009

Pages: xx + 560

ISBN: 978-81-8054-609-9; (TC 571)

MRP: ₹ 225.00

Textbook of Organic Chemistry

P.L. Soni • H.M. Chawla

Contents

Part I – General Organic Chemistry

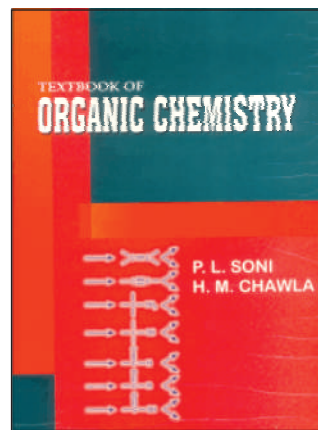
Part II – Organic Compounds

Part III – Aromatic Compounds

Part IV – Special Topics.

Appendix 1 – 9

Some Questions From University Examination.



Edition: 29th, 2007

Pages: xxiv + 1,704

ISBN: 978-81-8054-767-6 (TC 632)

MRP: ₹ 795.00

Textbook of Inorganic Chemistry

P.L. Soni • Mohan Katyal

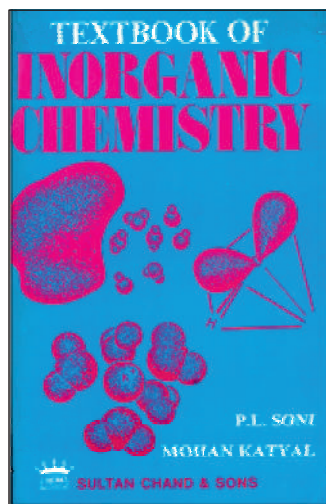
Contents

Part I: Chemical Principles – Introduction • Structure of Atom (Classical Model) • Structure of Atom (Modern Picture) • Classification of Elements • Nuclear Chemistry • Radioactivity and Nuclear Transformations • Theory of Chemical Bonding - I • Theory of Chemical Bonding - II • Structure of Solids • Oxidation-Reduction Reactions • Acids, Bases and Non-Aqueous Solvents • Standard Electrode Potentials.

Part II: Elements & Their Compounds – Principles and Processes of Metallurgy • Hydrogen • Water and Hydrogen Peroxide • The Elements of Group IA - (i & ii) • The Elements of Group IIA- (i & ii) • The p-Block Elements • Elements of Group IIIA - (i & ii) (ii) • Elements of Group IV – (i, ii, iii & iv) • Elements of Group VA (i, ii, iii & iv) • Elements of Group VIA (i, ii, iii & iv) • Elements of Group VIIA (i, ii, iii & iv) • Elements of Group Zero.

Part III: Transition Elements – The D-Block Elements • Coordination Compounds • Elements of Group IIIB • Elements of Group IVB • Elements of Group VB • Elements of Group VIB • Elements of Group VIIB • Elements of Group VIII (i & ii) • Elements of Group IB • Elements of Group IIB • Inner Transition or f-Block Elements • Analytical Aspects of D-Block Elements • Pollution.

Appendices, Index



Edition: 20th, 1991

Pages: xxiv + 1,632

ISBN: 978-81-8054-792-8 (TC 633)

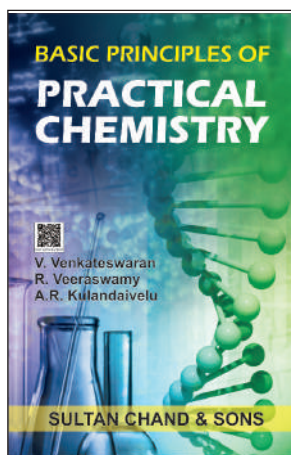
MRP: ₹ 800.00



Basic Principles of Practical Chemistry

V. Venkateswaran • R. Veeraswamy • A.R. Kulandaivelu

Contents



- Practical Inorganic Chemistry
- Volumetric Analysis
- Gravimetric Analysis
- Physical Chemistry Experiments
- Practical Organic Chemistry
- Reagents and Solutions
- Appendices
- References
- Logarithm Table
- Antilogarithm Table.

Index

Edition: 2nd, 1997

Pages: xvi + 352

ISBN: 978-81-8054-776-8; (TC 659)

MRP: ₹ 295.00

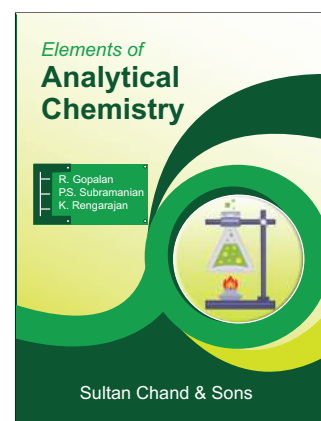
Elements of Analytical Chemistry

R. Gopalan • P.S. Subramanian • K. Rangarajan

Contents

Laboratory Hygiene and Safety • Analytical Balance • Laboratory Glassware • Data Analysis • Separation Techniques • Purification Techniques • Principles and Techniques of Semi-micro Methods • Principles of Volumetric Analysis • Principles of Gravimetric Analysis • Analytical Electrochemistry • Thermoanalytical Methods • Dipole Moment • X-ray Diffraction • Neutron Diffraction • Magnetic Properties • Colorimetric Analysis • Absorption Spectroscopy • Infrared Spectroscopy • Raman Spectroscopy • Photoelectron Spectroscopy • Flame Photometry & Atomic Absorption Spectroscopy • Mass Spectrometry • Applications of Isotopes in Analytical Chemistry • Nuclear Magnetic Resonance Spectroscopy • Electron Spin Resonance Spectroscopy • Experimental Techniques in Reaction Kinetics • Polarimetry • Organic Estimation • Analytical Chemistry in Consumer Protection.

Appendices



Edition: 3rd, 2003

Pages: viii + 400

ISBN: 978-81-8054-765-2; (TC 615)

MRP: ₹ 395.00

Textbook of Physical Chemistry

P.L. Soni • O.P. Dharmarha • U.N. Dash

Contents

Unit-I: Chemical Principles – Introduction • Structure of Atom • Structure of Atom (Modern Picture) • Classification of Elements • Nuclear Chemistry • Radioactivity and Nuclear Transformation • Chemical Bonding (i)—Classical Approach • Theory of Chemical Bonding (ii)—Modern Approach

Unit-II: States of Matter – The Gaseous State • Real Gases • Properties of Liquids • The Solid State

Unit-III: Thermodynamics-I – Introduction to Chemical Thermodynamics • The First Law of Thermodynamics • Thermochemistry • The Second Law of Thermodynamics • The Third Law of Thermodynamics • Chemical Equilibrium • Nernst Distribution Law • The Phase Rule

Unit-IV: Solutions – Solutions • Theory of Dilute Solutions

Unit-V: Surface Chemistry – Adsorption • The Colloidal State

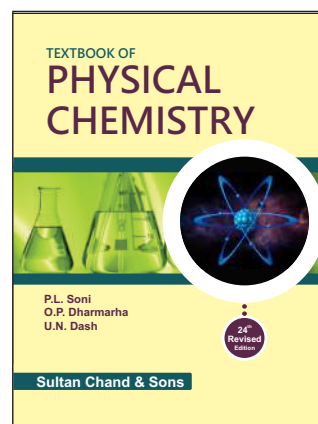
Unit-VI: Rates and Mechanisms – Chemical Kinetics • Catalysis • Photochemistry

Unit-VII: Electrochemistry – Electrolysis and Electrical Conductivity • Migration of Ions • Ionic Equilibria • Acids and Bases • Solubility Product and Hydrolysis • Electromotive Force

Unit-VIII: Structure of Molecules – Physical Properties and Chemical Constitution • Spectroscopy • Macromolecules

Unit-IX: Thermodynamics-II – Irreversible Thermodynamics • Statistical Thermodynamics.

Appendix, Index



Edition: 24th, 2023

Pages: xxiv + 1,608

ISBN: 978-81-951043-2-1 (TC 634)

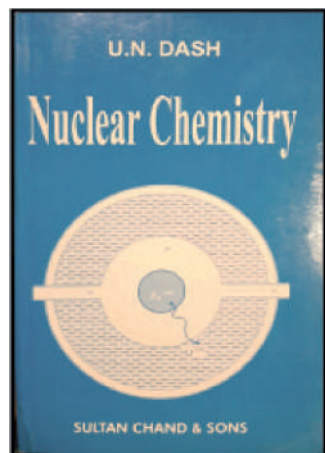
MRP: ₹ 1,250.00

Nuclear Chemistry

U.N. Dash

Contents

- Atomic and Nuclear Structure
- Radioactivity
- Radioactivity Decay and Growth
- Isotopes and their Separations
- Nuclear Reaction
- Nuclear Fission and Nuclear Energy Sources
- Isotope Effects and Isotopic Exchanges
- Radiation Chemistry
- Effects of Radiation on Matter
- Application of Nuclear Chemistry.



Edition: 1st, 1991

Pages: xxiv + 664

ISBN: 978-81-8054-778-2; (TC 610)

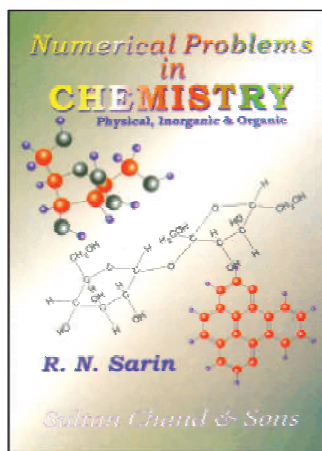
MRP: ₹ 200.00



Numerical Problems in Chemistry

Physical, Inorganic & Organic

R.N. Sarin



Contents

A – Physical and General Chemistry: Measurements, Significant Figures and Uncertainty in Measurements • Percentage Composition, Empirical and Molecular Formulae • Laws of Chemical Combination • Gas Laws, Kinetic Theory of Gases and Mole Concept • Molecular weight of Volatile Substances and Gases • Solutions, Colligative Properties and Molecular Weights of Non-Volatile Substances • Equivalent Weights and Electrochemistry • Atomic and Molecular Structures & Nuclear Reactions • Electrochemical Cells • Thermochemical & Thermodynamical Calculations • Chemical Kinetics and Reversible Reactions and Equilibria • Ionic Equilibria • Solid State.

B – Inorganic Chemistry: Periodic Classification of Elements • Chemical Bonding • Problems based on Equations • Redox Reactions and Oxidation Numbers • Miscellaneous Reactions and Problems on Analytical Chemistry.

C – Organic Chemistry: Estimation of Elements and Determination of Formulae of Organic Compounds • Nomenclature, Typical Reactions, Structural Formulae and Conversions in Organic Compounds.

Test your Understanding, Model Papers, Latest Question Papers, Appendix.

Edition: 28th, 2006

Pages: xvi + 964

ISBN: 978-81-8054-689-1 (TC 622)

MRP: ₹ 450.00

Analytical Chemistry

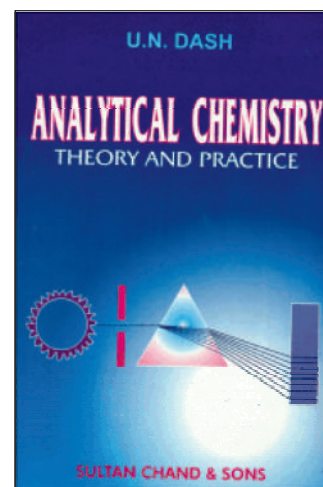
Theory and Practice

U.N. Dash

Contents

- Introduction
- Electromagnetic Radiation
- Ultraviolet Spectroscopy
- Infrared Spectroscopy
- Nuclear Magnetic Resonance Spectroscopy
- Mass Spectrometry
- Mössbauer Spectroscopy
- Electron Spin Resonance Spectroscopy
- Refractometry and Polarimetry
- Radiometry
- Chromatography
- Polarography
- Thermoanalytical Methods.

*Author Index
Subject Index.*



Edition: 3rd, 2013

Pages: xx + 672

ISBN: 978-81-8054-953-3; (TC 609)

MRP: ₹ 297.00

Principles of Reaction Mechanism in Organic Chemistry

V.S. Parmar • H.M. Chawla

Contents

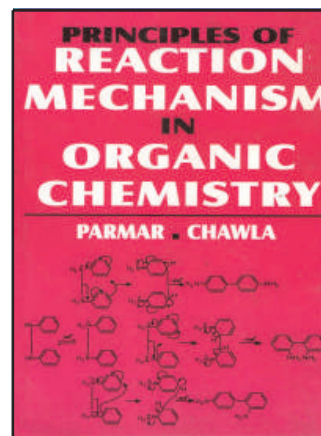
Part I – Atomic Architecture • Molecular Framework • Shapes of Organic Molecules • Configuration and Conformation Stereochemistry • Possibility of a Chemical Reaction • Reaction Rates and Energetics • Types of Organic Reactions and Reagents • Scale of Acidity and Related Concepts.

Part II – Nucleophilic Substitution at the saturated Carbon Atom • Addition to Multiple Bonds • Aromaticity and Aromatic Substitution • Elimination Reactions • Carbonium Ions and Carbanions • Unstable – Uncharged, Intermediates; Free Radicals • Molecular Rearrangements, Tautomerism • Woodward – Hoffmann Rules of Orbital Symmetry: Pericyclic Reactions.

Questions

Selected Reference

Index.



Edition: 2nd, 2016

Pages: xvi + 456

ISBN: 978-81-8054-672-3; (TC 621)

MRP: ₹ 300.00

Organic Photochemistry

Malti Dubey (Rawat)

Contents

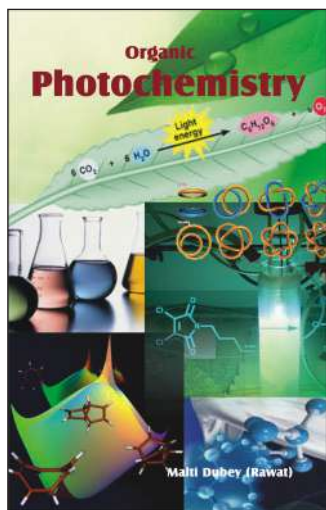
- Photochemistry
- Determination of Reaction Mechanism
- Photochemistry of Alkenes
- Photochemistry of Carbonyl Compounds
- Miscellaneous Photochemical Reactions.

Tables

Glossary

Bibliography

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Edition: 1st, 2013

Pages: xxiv + 120

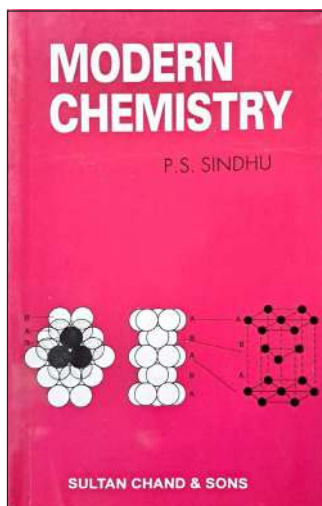
ISBN: 978-81-7211-325-0

MRP: ₹ 350.00



Modern Chemistry

P.S. Sindhu



Contents

Section A: Structure of Atoms, Molecules and Solids

- Structure of Atoms
- Covalent Bonding
- Packing in Crystals
- Conductivity of Solids
- Weak Chemical Forces
- The Electronic Structure of Transition Metal Complexes
- Some Properties of Coordination Complexes

Section B: Organic Chemistry

- Stereochemistry
- Reaction Mechanism in Organic Chemistry
- Functional Group Chemistry
- Some Name Reactions
- Polymerization - An Overview

Section C: Practical Chemistry

- Practical Chemistry.

Appendix, Index.

Edition: 2nd, 2001

Pages: xvi + 472

ISBN: 978-81-8054-823-9 (TC 629)

MRP: ₹ 275.00

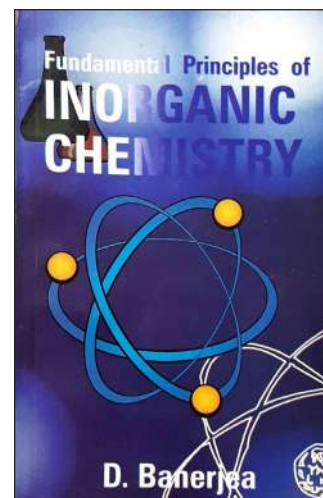
Fundamental Principles of Inorganic Chemistry

D. Banerjee

Content

- Periodic Classification of Elements
- Structure of the Atom
- The Nucleus
- Valency: Introduction and General Concepts
- Electrovalency
- Covalency
- The Metallic Bond
- General Theories of Acids and Bases
- Oxidation and Reduction
- Non-Aqueous Solvents
- Theory of Metal – Ligand Bond Properties of Coordination Compounds
- Organometallic Compounds of Transition Elements
- Role of Metal Complexes in Biological Systems
- Inorganic and Coordination Polymers
- Mechanisms of Inorganic Reactions.

*Appendixes (I-IV)
Subject Index.*



Edition: 3rd, 1993

Pages: xii + 652

ISBN: 978-81-7014-815-4 (TC 605)

MRP: ₹ 125.00



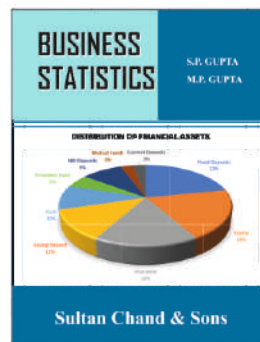
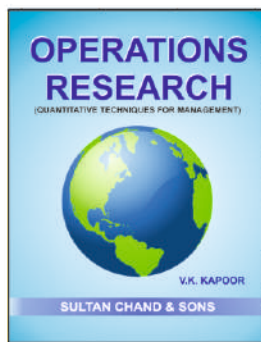
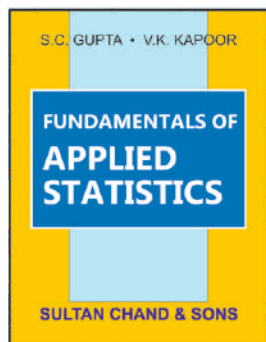
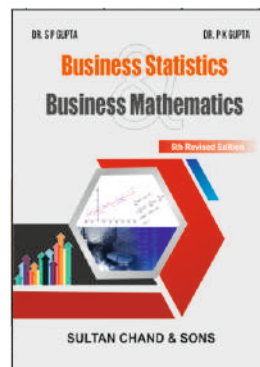
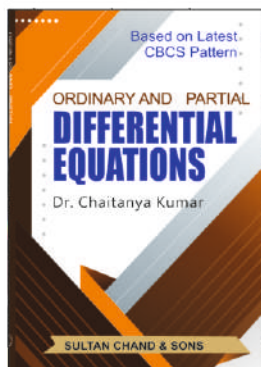
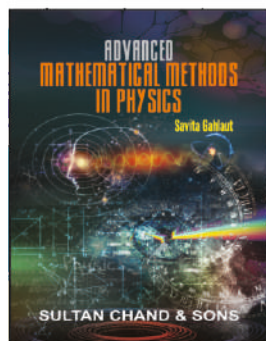
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