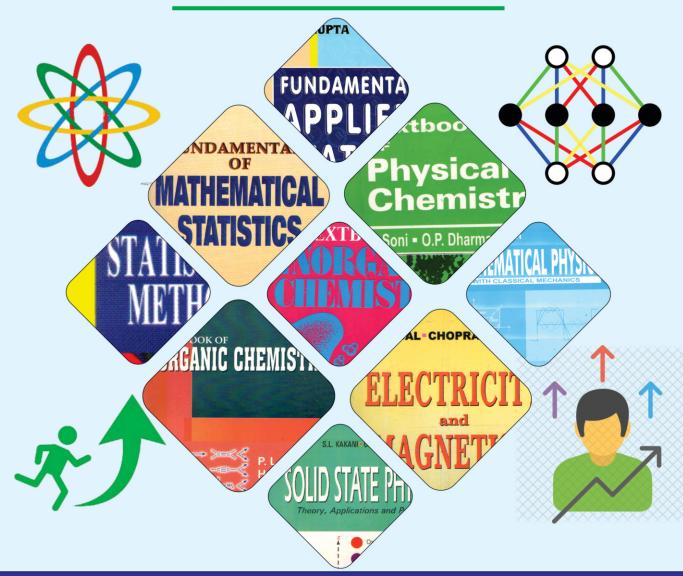
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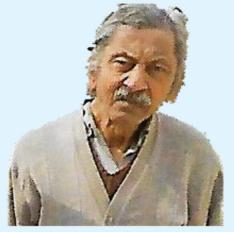
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CONTENTS

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Business Mathematics 10-12, 18
Quantitative Methods & Techniques 13-15
Algebra, Calculus & Matrices 15-18
Real Analysis 19
Information Technology 19-22
Physics 23-35
Chemistry 36-48
Photography 48
List of Books – Statistics, OR, Mathematics, Computer Science, Quantitative Methods 49-51
Our Publications useful for B.Sc. Students 52-54

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AUTHOR'S INDEX

Agarwal Archana 10 Aggarwal B.M. 13, 16 Arora P.N. 16, 19 Azad Sushil Kumar 19, 20 Balasubramanian S. 30 Baneriea D 37 Bapat M.N. 23 Batra M.S. 44, 47 Bhandari K.C. 31 Chandalia H.M. 29 Chandra Suresh 20 Chawla H.M. 38, 39, 44, 47 Chopra K.L. 26, 27, 29, 31, 33, 34 Dash U.N. 41, 42, 43 Dhar B.L. 32 Dharmarha O.P. 41 Gnanapragasam N.S. 43, 45 Gopalan R. 40, 45 Gupta J.D. 18 Gupta M.P. 8 Gupta P.K. 2, 3, 4, 5, 8, 12, 14, 15, 17, 19 Gupta S.C. 5, 6, 17 Gupta S.P. 7, 8, 10, 14, 15, 17 Gupta Sharda *19* Hemrajani C. *28*, *35* Kakani S.L. *23*, *28*, *29*, *31*, *34*, *35* Kapoor V.K. 3, 4, 5, 6, 9, 10, 11, 12, 13, 15, 18, Katyal Mohan 36, 37

Kulandaivelu A.R. 40 Lakshmi S. 42 Mathur D.S. 23 Mehta P.L. 13 Mohan Man *2, 3, 4, 5, 8, 14, 15* Narayana S.R. Shankara *24, 27, 29, 30, 32,* Parmar V.S. 39 Prabhakar T.R. 18 Prakash A. 31 Prakash B. 39 Prakash Satya 25, 28 Prasad L.M. 21 Prasad Usha 21 Ranganathan R. 30 Rengarajan K. 45 Sancheti D.C. 9, 10, 11, 13 Sarin R.N. 46
Sehgal D.L. 26, 27, 31, 33, 34
Sehgal N.K. 26, 27, 31, 33, 34
Singh Ranjit 19
Soni P.L. 36, 37, 38, 41, 44, 47, 48 Srinivasan M.N. 30 Subramanian P.S. 45 Sundaram S. 40 Swarup Kanti 2, 4 Thiagarajan S. 48 Veeraswamy R. 40 Venkateswaran V. 40

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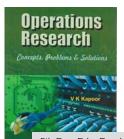
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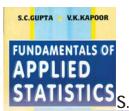
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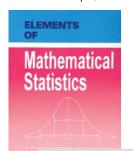
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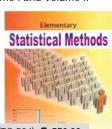
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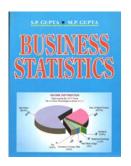
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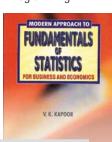
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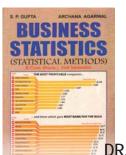
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• Correlation Analysis • Linear Regression Analysis • Analysis of Time series and Forecasting • Index Numbers • Introductory Probability • Random Variables and Probability Distributions • Special Probability Distribution • Statistical Decision Theory • Sampling and Statistical Inference • Hypothesis Testing—I • Hypothesis Testing—II • The Chi-square Distribution • Analysis of Variance • Theory of Attributes • Multiple and Partial Correlation and Regression • Interpolation and Extrapolation • Statistical Quality Control • Linear Programming.







Business Statistics Statistical Methods

For B.Com. (Hons.) I year, Second Semester Delhi, University

Archana Agarwal

Sri Aurobindo College, University of Delhi

DR. S.P. Gupta

Professor, Faculty of Management Studies, University of Delhi , Delhi

Tenth Revised Edition 2016

Pp. *xvi* + 620

ISBN 978-81-5161-074-8 (TC-519) ₹ 425.00

This book has been specially designed to meet the requirements of B.Com. (Hons.) 1st Year, *SECOND SEMESTER* students of Delhi University as per their latest syllabus.

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 The book contains true or false statements, multiple choice, and fill in the blanks questions so vital for testing understanding of the concepts but generally not found in other books.

Brief Contents

Business Statistics – What and Why • Classification and Tabulation of Data • Measures of Central Value • Measures of Dispersion • Skewness, Moments and Kurtosis • Correlation Analysis • Index Numbers • Analysis of Time Series • Probability Theory • Theoretical Distribution • Statistical Decision Theory • Sampling and Sample Design • Sampling Distribution and Theory of Estimation • Question Paper of B.Com (Hons.) Examination Semester II • Appendices.

Business Mathematics

D.C. Sancheti, Ph.D. · V.K. Kapoor

Eleventh Edition Reprint 2019

22 × 14 cm. Pp. xviii + 1200

13514 770 01 0001 000

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Business

D.C. SANCHETI V.K. KAPOOR

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Contents

Logical Statements and Truth Tables • Theory of Sets • Boolean Algebra • Real Number Systems • Groups, Ring and Field • Indices and Surds • Logarithms • Equations : Linear, Quadratic, Cubic and Higher Order • Permutations and Combinations • Binomial Theorem • Mathematical Induction, Sequence and Series • Arithmetic and Geometric Progressions • Convergence and Divergence of Series. Circular Functions and Trigonometry • Co-ordinate Geometry • Functions, Limits and Continuity • Differential Calculus • Integral Calculus • Vector Algebra • Matrix Algebra.

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Dispersion, Skewness & Kurtosis

Correlation

Regression Analysis

· Measures of Averages

· Index Numbers

Time Series Analysis

· Probability and Expected Values

Statistical Decision Theory

Theoretical Distributions

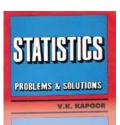
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Chi-Square Test

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THE PARTY OF STATE

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- Each chapter contains sufficiently large number of properly graded typical and thought-provoking problems with full length solutions for all categories of students.
- Questions set at the various professional and university latest examinations have been incorporated.

Contents

· Classification and Tabulation

Business Mathematics

For C.A. Professional Education Examination-I

D.C. Sancheti

Formerly Joint Director of Studies, Institute of Chartered Accountants of India, Ex-Principal, Shri Ram College of Commerce, New Delhi V.K. Kapoor

Reader, Department of Mathematics Shri Ram College of Commerce, University of Delhi, Delhi

8th Thoroughly Revised Edn. Reprint Solved Examples 355 Exercises 710 Pp. xii + 482 ISBN 978-81-8054-835-2 (TC-877) ₹ 200.00

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- During the course of re-writing, it has been specially borne in mind that the subject develops in a smooth and coherent manner so as to provide an orderly presentation.
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- Exercises (710) at the end of each chapter are substantially reorganized. Many new problems are included in the exercise sets.
- In order that a student does not get stuck while trying questions, hints have been given for important questions not covered by solved examples.
- Solved examples and unsolved problems have been drawn from latest examination papers.

Contents

Chapter One – Functions and Applications

Chapter Two – Arithmetic & Geometric Progressions

Chapter Three – Permutations & Combinations

Chapter Four – Matrices

Chapter Five – Linear Inequalities

Chapter Six – Limit & Continuity

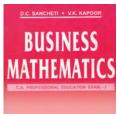
Chapter Seven – Differentiation

Chapter Eight - Integration

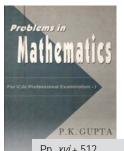
Chapter Nine - Mathematics of Finance-I

Chapter Ten - Mathematics of Finance-II

Appendix







Problems in Mathematics

for ICAI Professional Education - I, Examination and ICWA Intermediate Exam.

Dr. P.K. Gupta

Reader (Retd.) J.V. Jain College, Saharanpur

ISBN 81-8054-168-1 (TC-982) ₹ 135.00

Pp. xvi + 512

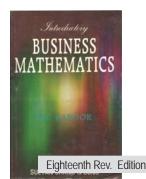
The book provides the basic knowledge of mathematical tools required to solve a large number of business problems.

The book is divided into 13 chapters and each chapter starts with the problems on the concepts of the topic to be discussed in that chapter. Detailed and complete solutions to the problems are then presented followed by a set of unsolved problems (with their answers) which provides an opportunity to the reader to review the grasp of the concepts.

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Contents

• Functions • Graph Linear Inequalities • Matrices • Applications of Matrices • Progression • Applications of Progression • Permutation and Combination • Limit and Continuity • Simple Differentiation • Applications of Derivatives • Simple Integration • Applications of Integration • Mathematics of Finance • Sample Papers and their Solutions • Tables • Question Paper with Solution.



Introductory

Business Mathematics

V.K. Kapoor

Shri Ram College of Commerce, University of Delhi, Delhi

Pp. *xvi* + 858

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- · Questions set at the latest university examinations have been incorporated.
- · Sufficient number of revisional problems are provided at the end of each chapter.
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- · An ideal book suited for independent study.

Contents

- Matrices I
- 2. Matrices II Applications
- 3. Functions
- 4. Limit & Continuity
- 5. Differentiation I Basic Concepts
- 6. Differentiation II (Applications)
- 7. Partial Differentiation I Basic Concepts
- 8. Partial Differentiation II Applications
- 9. Integration I Basic Concepts
- 10. Integration II Applications
- 11. Linear Programming I Formulation & Graphic Solution Method
- 12. Linear Programming II Simplex Method
- 13. Linear Programming III Duality
- 14. Mathematics of Finance I Compound Interest
- 15. Mathematics of Finance II Annuities Certain
- 16. The Transportation and Assignment Problems **Appendix**



Quantitative Methods

Text-Cum-Problems and Solutions

for ICWA Stage II (Revised Syllabus) and M.B.A.

B.M. Aggarwal, B.Sc. (Hons), M.A. (Maths), Grad., I.L.T.E. (Miece) Member Teaching Faculty (i) NIRC of ICWA (ii) NIRC of ICA

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Contents

Part I – Mathematical Techniques Part II – Statistical Techniques Part III – Economic Techniques

Scanner ICWA & MBA and Important Results

Ouantitative Methods

for I.C.W.A. Intermediate Revised Course, Stage II

D.C. Sancheti, Ph.D.

Principal, Shri Ram College of Commerce, University of Delhi, Delhi Formerly, Joint Director, Board of Studies, Institute of Chartered Accountants of India, New Delhi

V.K. Kapoor • P.L. Mehta

Shri Ram College of Commerce, University of Delhi, Delhi

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Contents

Section A: Mathematics Pp 285; 175 Solved Examples; 253 Unsolved Exercises.

Vector Algebra • Matrix Algebra • Limits and Continuity • Differential Calculus • Integral Calculus • Linear Programming.

Section B: Statistics Pp 444; 163 Solved Examples; 557
Unsolved Exercises

Correlation Analysis • Regression Analysis • Probability and Expected Value • Statistical Decision Theory • Sampling and Designing of a Sample Survey • Text of Hypothesis • Chi-Square Test.

Section C: Economic Techniques Pp. 284; 150 Solved Examples; 193 Unsolved Exercises.

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Quantitative Techniques - I

For Business Studies

Prof. S.P. Gupta

Ex-Dean and Head, Faculty of Management Studies, University of Delhi, Delhi

Dr. Man Mohan

Reader, Department of Mathematics and Statistics Ramjas College, University of Delhi, Delhi

Dr. P.K. Gupta

Reader in Mathematics (Rtd.), J.V. Jain College, Saharanpur (Formerly visiting faculty member, Department of Mathematics, Cochin University of Science and Technology, Kochi

Second Edition Pp. VIII + 640 ISBN 81-8054-131-2 (TC-869) ₹ 125.00

- The text has been thoroughly revised and enlarged and each concept has been explained in a simple way.
- · A new chapter on Indices has been added.
- Each chapter contains a sufficiently large number of worked out examples and unsolved problems followed by their answers on each concept.
- The book is unique in its emphasis on the applications of Quantitative Techniques in decision making. In this context, each of the chapters on mathematical tools is followed by a chapter on its applications to business problems.
- Old stereotype problems have been replaced by the latest ones appearing in recent examinations of various universities.
- Fill in Blank and True/False problems based on various concepts discussed in the chapter have been introduced at the end of each chapter.
- A set of multiple-choice problems followed by their answers is also included at the end of each chapter.

Contents

- Statistics What and Why
- Conducting a Statistical Enquiry

- Primary and Secondary Data and Sources
- Sampling Techniques
- Classification and Tabulation
- Diagrammatic and Graphic Presentation
- Measures of Central Value
- Measures of Variation
- Skewness, Moments and Kurtosis
- Correlation Analysis
- Regression Analysis
- Statistical System in India
- Set Theory
- Indices
- Sequences and Series
- Matrices and Determinants
- Applications of Matrices and Determinants
- Statistical Tables, Logarithms, Antilogarithms.

Education is the ability to listen to almost anything without losing your temper or self-confidence



Quantitative Techniques – II

For Business Studies

Prof. S.P. Gupta

Head & Dean, Faculty of Management Studies, University of Delhi, Delhi

Dr. P.K. Gupta

Reader

J.V. Jain College, Saharanpur

Dr. Man Mohan

QUANTITATIVE TECHNIQUES/I

Reader

Deptt. of Mathematics & Statistics, Ramjas College, Delhi

ISBN 81-8054-008-1 (TC-933) ₹ 100.00

First Edn. Pp. viii + 448

This book is primarily meant for the undergraduate students of Commerce of all universities in A.P. where the subject is taught.

The lucidity of style and simplicity of expression have been our twin objects to remove the awe which is usually associated with most mathematical and statistical textbooks. The only mathematical background needed for understanding the entire book is a little arithmetic and elementary algebra. In order that the students may not feel any difficulty in following the text, steps in calcualtions alongwith the related formulae have also been given.

A large number of properly graded questions and problems, mainly from latest examination papers of various universities, are given at the end of the each chapter in Section I. Answers to the problems, along with hints, where necessary, have also been provided. In Section II, each concept is followed by illustrations and well-graded examples. An exercise containing unsolved problems followed by their answers is also given before starting the next concept.

Another novel feature of the book is its emphasis on application of Quantitative Techniques in business decisionmaking.

Contents

Section I – Analysis of Time Series • Index Numbers • Probability • Theoretical Distributions.

Section II - Real Functions and Limits • Differentiation • Applications of the Derivative • Maxima and Minima • Simple Integration • Applications of Integration • Linear Programming – Introduction • Linear programming – Graphical Method • Linear programming - Simplex method. Question Paper.

Appendix – Logarithms, Antilogarithms and Statistical Tables.

Introductory Algebra and Calculus

V.K. Kapoor

First Edition Solved Examples 474

Pp. xii + 452 Self-Practice Problems 691

V.K. KAPOOR

INTRODUCTORY

ISBN 81-7014-963-0 (TC-921) ₹ 100.00

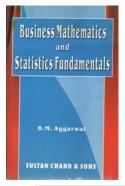
It is an indispensable, authoritative and well-written textbook for all introductory courses in Mathematics and completly covers the syllabi of various undergraduate courses.

Comprehensive coverage of topics on Algebra and Calculus • Systematic arrangement and analytical presentation of the subject matter . Large number of illustrative solved examples • Requires no previous knowledge of the subject • Difficult concepts have been explained in a simpler and easier manner • Provides an indepth understanding of the subject • Hints and answers to Self-Practice Problems enable readers to learn the subject faster · Problems have been graded according to the intracacies involved · Meet the complete requirement of students pursuing undergraduate courses in Mathematics, Statistics, Computer Science & Engineering.

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Chapter Learning Objectives • Simple, lucid and easily retainable language • An uptodate book on the subject • Clear, exhaustive and conceptual treatment of every topic · Illustrative solved Examples • Unsolved Problems for Selfassessment • Incorporates previous years' examination questions • Step by step explanation of concepts • All chapters are well organised · Scanner of Past Examination Papers • Step by step explanation of concepts • Completly written on modern lines . Designed on 'Teach Yourself' basis • Low-price text as compared to other competitive titles available.





Business Mathematics and Statistics Fundamentals

Text-cum-Problems and Solutions

for I.C.W.A. Foundation Course Revised Syllabus

B.M. Aggarwal, B.Sc. (Hons), M.A., (Maths), GRAD. I.E.T.E. (M.I.E.T.E)

Member: Teaching Faculty, Business Mathematics and Statistics

NIRC, I.C.W.A., New Delhi, NIRC of ICA

Ist Edition

Knowledge-Packed Pp. viii + 1172

ISBN 978-81-8054-633-4 (TC-940) ₹ 300.00

Salient Features

- · The book covers the syllabus fully.
- It contains 1304 solved examples and 1099 unsolved problems with hints for independent practice.
- Solved examples are based on the latest question papers of I.C.W.A., ICAI and AIMA, B.Com. and B.Com. (Hons.) of many Indian Universities to represent every type of problem and latest trends.
- Important results have been given at the end for quick reference near the examination.
- The book is two-books-in-one. It is a text book as well as Problems and Solutions book on the subject.

Contents

Part I – Mathematics (Chapter 1-12): Percentage, Mixtures, Ratio Proportion and Variation • Indices and Surds • Number System • Permutations and Combinations • Theory of Equations • Logarithms • Interest (Simple Interest, Compound Interest and Discounting of Bills) • Elements of Set Theory • Truth Tables and its Applications to Statements • Mensuration • Averages • Plain Analytical Geometry • Miscellaneous Solved Examples-I • Calculus-Differential Calculus (with Applications) • Integral Calculus (with Application).

Part II – Statistics (Chapter 1-4): Frequency Distribution • Measures of Central Tendency • Measures of Dispersion • Moments, Skewness and Kurtosis • Miscellaneous Solved Examples-II.

Scanner

Short Answer Questions

Topics in Algebra

Dr. P.N. Arora

Dyal Singh College, University of Delhi, Delhi

9th Revised Edition

TOPICS IN

Pp. *xvi* + 530

ISBN 81-7014-358-6 (TC-478) ₹ 110.00

The present edition of the book has been written in the light of the revised syllabus of B.Sc. (Gen.) / B.A. (Pass), B.Sc. (Hons.) of Delhi University and other Indian Universities.

Salient Features

- The subject-matter has been presented in a rigorous manner and the language used is simple.
- The subject matter is developed in a smooth and coherent manner.
- 427 solved examples and 735 unsolved problems have been selected from the examination papers of various universities. Every concept has been explained by means of solved examples.

Contents

Modern Algebra

• Group • Ring and Fields • Vector Spaces • Permutation Groups.

Algebra

• Real Numbers • Complex Numbers • De Moivre's Theorem and its Applications • Summation of Trigonometric Series • Theory of Equations • Matrix Algebra • Determinations • Adjoint and Inverse of a Matrix • Rank of a Matrix • Linear Equations and Cayley Hamilton Theorem • Infinite Series.

Appendix

Delhi University Examination Papers.



Business Statistics and Business Mathematics

S.P. Gupta • P.K. Gupta

4th Revised Edition 2017

Pp. x + 870

ISBN 978-93-5161-060-1 (TC-1131) ₹650.00

Business Statistics Business Mathematics

This main features of this book are:

- The matter has been presented in a very simple and lucid style and is self-explanatory.
- There are 270 solved illustrations in the section relating to Business Statistics.
- There are about 500 solved examples to explain various mathematical techniques.
- · Each mathematical concept is illustrated with solved examples which have been designed to clarify the principles involved.
- · Special care has been taken to develop the topics of Mathematics in an easy to understand form.
- · The basics and solved examples are followed by an exercise for self-practice
- · At the end of each chapter, objective questions an practical problems based on various concepts dealt within the chapter are presented.
- Unsolved problems are given in the form of exercises followed by their answers.

- At the end of each chapter a set off multiple-choice problems with answers is given.
- Solved past university questions are given in the form of Review Illustrations.

Business Statistics: Introduction to Statistics • Classification and Tabulation • Diagrammatic and Graphic Presentation • Measures of Central Tendency • Measures of Variation • Correlation Analysis • Regression Analysis • Index Numbers · Analysis of Time Series · Interpretation of Data · List of Symbols, Abbreviations and Formulae Statistical Tables • Question Papers.

Business Mathematics: Matrices and Determinants • Applications of Matrices and Determinants • Functions, Limits and Continuity · Simple Differentiation · Applications of Differentiation • Integration and Its Applications • Mathematics of Finance • Scanner of Paper VI (2006-2012) • Question Papers.

An Introduction to Matrices

S.C Gupta

Hindu College, University of Delhi, Delhi

First Edition Reprint 2014

Pp. *viii* + 304

ISBN 978-81-8054-926-7 (TC-503) ₹ 125.00

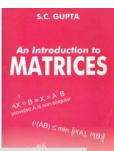
It is a textbook for B.A./B.Sc. Pass and Honours courses of Mathematics and Statistics; and subsidiary courses of Physics (Hons.) and Chemistry (Hons.) of all Indian universities.

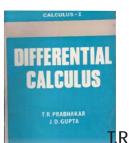
Salient Features

- Lucid style and simple expression.
- · A comprehensive and analytic treatment is given of all the
- · A number of stimulating problems have been solved as illustrations.
- Large number of carefully graded problems.
- · Answers to all the problems are given.

Contents

- · Algebra of Matrices
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- Determinants
- · Adjoint and Inverse of a Matrix
- · Rank of a Matrix
- Linear Equations
- The Characteristic Roots and the Characteristic Equation of a Matrix
- · Quadratic Forms
- Bibliography
- · Index.







Differential Calculus

for B.A/B.Sc. Maths Courses

J.D. Gupta

Kirorimal College, University of Delhi, Delhi

T.R. Prabhakar

Deptt. of Mathematics, University of Delhi, Delhi

Second Revised Reprint Edition

Pp. xvi + 407 (TC-544)

₹ 50.00

The treatment is in keeping with the principles of modern analysis.

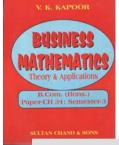
Contents

Real Numbers, Functions and Graphs • Limits and Continuity • Derivatives • Meaning of the Derivative and Simple Applications

• Trigonometric Functions • Exponential and Logarithmic

Functions • Successive Differentiation and Leibnitz Theorem • Mean Value Theroems, and Applications • Maxima and Minima

- Partial Derivatives Tangent and Normals Linear Asymptotes
- Curvature
 Concavity, Points of Inflexion and Singular Points
- Envelopes and Evolutes Curve Tracing Appendix : Limit Theorem and Some Important Limits.



Business Mathematics

Theory & Applications

V.K. Kapoor

19th Revised Edition

Pp. *xvi* + 508

ISBN 978-81-8054-925-0 (TC-1193) ₹ 350.00

Business Mathematics Theory & Application has been especially designed and written for the new syllabus of paper Ch. 3.1 (Business Mathematics Theory & Application) for the B.Com. (Hons.) semester III course of Delhi University. The book will also be useful for similar courses at the undergraduate level.

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- The book maintains student friendly simple language, lucid style, congent presentation, clarity of exposition, selfcontained and practical approach and provides both motivation and physical insight to the readers.
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- It is oriented towards applied approach.
- The book reveals a refreshing new touch to every topic discussed with a score of valuable points which the student is unlikely to find in any other competitive title and which will give him the confident feeling of knowing something extra about the subject.
- · In short, no pains have been spared to make the book useful for all types of students.

Contents

- Matrices and Determinants
- **Applications of Matrices**
- **Functions**
- · Limits and Continuity
- Differentiation Basic Concepts
- Applications of Differentiation
- Partial Differentiation (Basic Concepts)
- Applications of Partial Differentiation
- Integration (Basic Methodology)
- Applications of Integration
- Mathematics of Finance
- · Linear Programming-I (Formulation and Graphic Solution Method)
- Linear Programming-II (Simplex Method)
- · Linear Programming-III (Duality).



First Course in Real Analysis

P.N. Arora • Ranjit Singh

Fifth Thoroughly Rev. Rep. Edition

Pp. viii + 388

ISBN 81-8054-443-5 (TC-477) ₹85.00

REAL ANALYSIS

The Book has been thoroughly revised in the light of the suggestions and the changes in the syllabus. Presents the subject-matter in a simple and logical manner.

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- Preliminaries
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- Neighborhoods and Limit Points

- Seguences
- · Infinite Series
- · Limits and Continuity
- Derivatives
- Mean Value Theorems and Power Series
- · Maxima and Minima
- · Indeterminate Form & L'Hospital's Rule
- · On the Series of Arbitrary Terms
- · Answers. Latest University Exam. Question Papers.

Real Analysis

P.K. Gupta Sharda Gupta

J.V. Jain College, Saharanpur

Solved illustrations 302, Unsolved Exercises 446

This book provides an introduction to Real Analysis and is meant primarily for students of mathematics at the under-graduate level. It presents, in a simple and systematic manner, the fundamental concepts, the modern techniques and the main results of Real Analysis, all within the projected scope of the book.

In the present book, it has been tried to formulate clear definitions of various concepts and to state the results precisely in the form of theorems, corollaries etc. Complete proofs are given wherever these are feasible; more over wherever it is not found necessary to give full-fledged proof, a clear mention to this effect is made. An attempt has been present the subject matter in a Pp. *xii* + 468

(TC-498) ₹55.00

lucid style. It is aided by illustration, solved examples and exercises in adequate number to make the theory to grasp and remember.

Contents

Real Numbers and Real Valued Functions • Neighborhoods and Limit Points • Convergence of Sequences • Limits and Continuity of Functions • Derivatives • Mean Value Theorems and their Applications • Infinite Series • Taylor's Theorem and Applications

• Riemann Theory of Integration • Riemann Stieltjes Integral • Answers • Index.

Computer Fundamentals & Software

Sushil Kumar Azad, M.Tech. (Computer Science)

Rajdhani College, University of Delhi, Delhi

First Edition

Pp. 300

ISBN 81-7014-166-0 (TC-485) ₹ 75.00

Salient Features

- · Basic requirements to work on computer such as knowledge of Operating system and editor are explained in the book in a very simple and easy form.
- It is the first introductory book where efforts have been made to use software, like LOTUS 1-2-3 for solving numerical and statistical problems.

 Those who have no prior knowledge of computer will find the first four chapters of the book very useful.

Contents

The Fundamentals of Computer System • Data Representation • General Purpose Software • Productivity Software – MS-DOS VER-5.0 • Productivity Software - LOTUS 1-2-3 VER-2.2. • Annexure.





Scientific & Statistical Computations Using Fortran 77

Sushil Kumar Azad

First Edition Pp. xvi+ 328 ISBN 81-7014-536-8 (TC-820) ₹ 105.00

Salient Features

- This book covers the syllabus of "Computer Programming" of B.Sc. (Hons.) Statistics/Electronics, B.A./B.Sc. (Hons.) Maths., B.Sc. (Hons.) Physics., B.Sc. (General) and B.E. (Computer Science).
- FORTRAN 77 fundamentals are provided to assist the students in understanding the essentials of programming.
- Computational steps for each Scientific and statistical method are provided to help develop efficient programs.
- · Actual output of the programs has been included.
- Each chapter contains a number of Examples/ Illustrations.

Contents

- · The Basic of Computer Programming
- · Flow Charts and Algorithms
- · The Fundamentals of FORTRAN 77
- Numerical Computations
- · Statistical Computations (Frequency Distribution Analysis)
- Statistical Computations (Applied Statistics).

Annexures

- Fortran Library Functions
- Fortran 77 Compiler
- Statistical Tables
- · More FORTRAN Features
- · Question Papers · Index.

Fortran Programming & Numerical Techniques

Dr. Suresh Chandra

Department of Physics, IGNOU, New Delhi

First Edition Pp. *xvi* + 232 (TC-567) ₹ 50.00

Contents

Part I - Fortran Programming (Pp. 96)

- · Introduction
- Elements of Fortran Language
- · Structure for a Fortran Program
- Formatted Input/Output Statements
- · Control Statements
- · Arrays and Subscripted Variables
- Functions and Subroutines (Sub-Programs)
- Double Precision and Complex Types of Data
- Other Facilities in Fortran Language.

Part II - Numerical Techniques (Pp. 122)

- · Interpolation
- Numerical Integration
- Numerical Solution of Ordinary Differential Equations
- Roots of Equations
- Numerical Computation of Some Special Functions
- Monte-Carlo Method and Simulation
- Statistical Methods
- Matrices and Solutions of Linear Algebraic Equations.

Appendices, Index.

A teacher's job is to take a bunch of live wires and see that they are well-grounded



Information Technology & Computer Applications

V.K. Kapoor

Shri Ram College of Commerce, University of Delhi, Delhi

Fifth Revised Edition Reprint

Knowledge Packed Pp. xvi + 679

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The book serves ideally as a single-source reference for students of C.A., I.C.W.A., M.B.A. and C.S. for basic concepts as a self-study material, or the non-EDP executives to help them feel at home in a computer environment and as a refresher material for those holding computer-related jobs.

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Information Systems and Technology

Dr. L.M. Prasad • Usha Prasad

First Edition. Reprint

Pp. xx + 636

ISBN 81-8054-152-5 (TC-977) ₹ 195.00

Providing information in a timely fashion is possible only when an organisation has developed effective information systems and managers as users know how information systems work in their organisation. Keeping this phenomenon in view, institutions offering management courses have made the study of Management Information Systems compulsory to their students. Similarly, many professional institutions like Institute of Cost and Works Accountants of India have made the study of Management Information Systems compulsory to their aspiring professionals. The present comprehensive book has been prepared primarily to serve the needs of such students.

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Computers and Information Technology

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V.K. Kapoor

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Heat & Thermodynamics (Thermal Physics)

for Degree (Pass and Honours) Classes

D.S. Mathur

Formerly Head of Deptt., of Physics, Hindu College, Delhi University, Delhi Renowned Author of Properties of Matter Regional Institute of Education, Mysore

ILTAN CHAND & SONS

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 22×14 cm.

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An extremely successful text book on Heat & Thermodynamics courses is now further improved for greater clarity and precision in its fifth edition. The focus is on making the book a modern under-graduate text. The equations and symbols used in the text are put according to SI system. A large collection of fullyworked examples and numerous problems promote the clarity of the topics covered. Twenty new solved examples have been added in this edition. Longer problems of general nature are supplied at the end of various chapters. The revised edition incorporates the statistical theory which is intimately related to understanding the behavior of the particles carrying heat. This has been included along with partition function. The application

of particles function to explain sum physical phenomena, however may be omitted at first reading.

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 Law Temperatures • Transmission of Heat – Conduction • Transference of Heat – Convection • Radiation of Heat • Elements of Statistical Mechanics • Classical and Quantum Statistics • Appendices.

Heat, Thermodynamics & Statistical Physics

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Dr. S.L. Kakani, M.Sc., Ph.D.

M.L.V. Govt. College, Bhillwara

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- Exercises and Problems are also provided.
- · Summary of each chapter is provided.

In the present edition good number of new topics on Heat, Statistical Physics along with a large number of typical problems with correction have been added. Good number of new objective & short question-answers have also been added so that student may find it useful for UGC-CSIR, NET-SLET, GATE & other all India entrance examinations. Every care has been taken to cover the latest syllabus proposed by UGC and revised syllabi by various university.

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for B.Sc. Students

S.R. Shankara Narayana

Head, Department of Physics, St. Philomena's College, Mysore

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- · Change of State
- · Isothermal and Adiabatic Changes
- · Kinetic theory of Gases

Pp. x + 314

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- Diffusion
- Osmosis
- · Properties of Real Gases
- Low Temperatures
- Thermodynamics
- · Thermodynamical Relations
- Classical Statistics
- Conduction
- Radiation
- · Thermo-electricity
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Modern Physics & General Electronics

S.R. Shankara Narayana

Ex-Head, Department of Physics, St. Philomena's College, Mysore

Second Revised Edition

Ques. with Ans. 424

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Special Features

- The book is intended to serve as a compact textbook for B.Sc. students.
- The subject-matter has been developed systematically. Many questions have been chosen from the question papers of Indian Universities, but many have been independently formulated in order to help maintain continuity of development of the subject.
- A large number of diagrams, worked numerical examples and objective type questions are special features of the book.
- One important change in the book is enlarging the part devoted to General electronics. The topics on both vacuum tubes and solid state devices have been exhaustively dealt with in this edition.

Contents

- · Special Theory of Relativity Electron
- Photoelectricity
- Atomic Structure

- X-Rays
- Wave Mechanics
- Molecular Spectra: Raman Effect
- Elements of Statistical Mechanics
- Specific Heats of Solids
- Free-Electron Theory of Metals
- Solid State Physics
- Mass Spectrographs
- Radioactivity
- Basic Properties of Nucleus
- Particle Accelerators
- Artificial Transmutation
- · Alpha, Beta and Gamma Ray Spectra
- Nuclear Models
- · Nuclear Reactions
- Cosmic Rays and Elementary Particles
- Electron Vacuum Tubes
- Solid State Electronics
- · Transmission and Reception of Signals
- Appendix.



Mathematical Physics

(Including Classical Mechanics)

Satya Prakash

Vardhaman College, Bijnor

6th Revised Edition Reprint 2018

Solved Examples 627

Pp. xxiv + 1576

ISBN 978-81-8054-928-1 (TC-587) ₹ 745.00

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To make the book more useful for TDC, Postgraduate and Engineering students the following changes have been made:

- Chapter 1 Vectors (with applications) contains sixteen latest problems from examinations question papers
- Chapter 2 Matrices, contains three examination problems with solutions
- Chapter 3 Tensors, contains three latest examination problems with solutions
- Chapter 4 The Beta, Gamma & Error Functions, contains two latest examination problems with solutions
- **Chapter 5** Infinite Series, contains one latest examination problem with solutions.

Special Features

- In this concise book only the problems required for Physics students and selected from various university papers have been added.
- Moreover the subject-matter is written in simple and comprehensive manner.
- After each topic, important examples, concerned with the fundamental aspects of the topic, have been included.
- At the end of each chapter the book contains a number of selected problems from university papers and other standard courses.

Brief 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 or Errors • Group Theory • Numerical Analysis • Classical Mechanics • Special Theory of Relativity • Quantum Mechanics.

Mathematical Physics

(With Mechanics & Properties of Matter)

Satya Prakash

Vardhaman College, Bijnor

First Edition

Pp. xvi + 516

ISBN 81-7014-314-4 (TC-588) Rs. 120.00

Special Features

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- After each topic a sufficient number of solved examples have been added.
- At the end of each chapter the selected set of 'Questions and Problems' has been given.

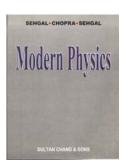
Contents

Section A: Mechanics (Pp. 144) – Unit I: Dynamics: Kinetic Concepts and Motion Along a Curve • Projectile Motion: Impulse

and Impact • Moment of Inertia. **Unit II**: Statics, Hydrostatics and Hydrodynamics: Equilibrium of Rigid Bodies and Friction • Centre of Gravity and Equilibrium • Pressure of Liquids and Floatation • Hydrodynamics.

Section B: Mathematical Methods (Pp. 216) – Vector Analysis • Matrices • Classical Mechanics • Beta and Gamma Functions • Series Solutions of Second-Order Equations and Special Function.

Section C: Properties of Matter (Pp. 156) – Elasticity • Surface Tension • Viscosity • Gravitation • Motion of Satellites: Escape Velocity.





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(In S.I. Units) for B.Sc. (Pass) and (Hons.), B.E., B.Tech. and A.M.I.E.

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Pp. *xxviii* + 741 373 Diagrams

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The present edition has been thoroughly revised and updated and has been almost completely rewritten. The format and arrangement of different chapters and units has been changed and practically all the diagrams have been redrawn in a clearer and more informative manner. The following are among the main changes introduced in the present edition :

- Complete revision of the unit on 'Structure of Atom' including a detailed theory of alpha particle scattering, the discussion of critical potentials and their importance and the Bohr Sommerfeld theory of the atom.
- Complete revision of the unit on the 'Vector Model of the Atom', including detailed discussion of the Zeeman effect, the exclusion principle, the Paschen-Beck effect and the Stern-Gerlach experiments.
- Complete revision of the unit on the 'Particle Properties of Waves' with a new chapter on 'Raman Effect'.
- Complete revision of the unit on 'Wave Nature of Matter' including a more detailed and complete discussion of the Uncertainty principle and its implications and applications.
- A more detailed and complete discussion on the basic postulates and formalism of quantum mechanics.
- A unitwise discussion on application of quantum mechanism to simple 'free state' and 'bound state' problems.
- A new unit on the basic properties of nucleus with a more detailed and thorough discussion on the basic simple models of the nucleus.
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- A thoroughly revised, updated and more detailed discussion on the 'Theory of Relativity'.
- Considerable editing, pruning and rearrangement of the basics of elementary electronics.

Brief Contents

· Conduction of Electricity through Gases · The Phenomenon of the Discharged Tube – Discovery of Cathode Rays • Motion of Charged Particles in Electric and Magnetic Field • Discovery of Cathode Rays - Determination of their Charge and Mass • Positive Rays and Thomoson's Parabola Method • Mass Spectrographs • Initial Studies : Thomoson and Rutherford's Model of the Atom • Bohr's Theory of the Hydrogen Atom • Critical Potentials and their Experimental Determination • The Bhor-Sommerfeld Theory • Introductory Ideas; Zeeman Effect and Space Quantization • The 'Spin' of the Electron: Quantum Mechanical Explanation of the Anomalous Zeeman Effect • The Exclusion Principle and the Periodic Table of Elements • The Paschen-Beck Effect, The Stark Effect and the Stern-Gerlach Experiment • Photoelectric Effect • X-Rays & Compton Effect • Raman Effect • De-Broglie Hypothesis • Experimental Support for the De-Broglie Hypothesis and Principle of Complimentarily • The Uncertainty Principle • Inadequacy of Classical Mechanics Need for a New Mechanics • The Schrödinger Equation • Basic Postulates and Formalism of Quantum Mechanics • Problem of 'Free Particle' and 'The Step Barrier Problem' . The 'Barrier Penetration' Problem and the Problem of the Square Wall Potential • Problems of a 'Particle a Box' and 'A Particle in a one Dimensional Square Wall' Potential of Finite Depth • The Harmonic Oscillator • The Problem of the Hydrogen Atom • The Rigid Rotator • The Basic Properties of the Nucleus • Nuclear Energy and Nuclear Forces · Models of the Nuclear · Radioactivity · Radioactive Radiation • Introductory Statistical Physics • Theory of Relativity • General Features of the Electron Tubes • Electron Tubes • Rectifiers and Filters • Amplifiers • Oscillators • Semiconductors • Radio Communication • Practical Electronic Devices • Appendix I • Appendix II

Children have to be educated, but they have also to be left to educate themselves



Electricity & Magnetism

for B.Sc. Pass and Hons., I.C.S., P.C.S. & A.M.I.E. Exams.

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

Hans Raj College, University of Delhi, Delhi

Sixth Edition Reprint Pp. xxiv + 892

ISBN 978-81-8054-583-2 (TC-590) ₹ 400-00

SEHGAL CHOPRA SEHGAL

Special Features

- A detailed chapter on Vector Analysis has been added in the beginning of the book. This has been done to reduce the mathematical requirements on the part of the student.
- · The book has been written in SI units.
- · Several new topics have been added at appropriate places.
- The book has a very large number of solved and unsolved numerical problems from different university and competitive examinations.
- At the end of each chapter, all kinds of objective type questions have been included.
- In the present edition the style of presentation as well as
 the content have been revised/altered for quite a few topics
 to make reader friendly. These include, among others the
 chapter on 'The Electric Field', Steady Currents, 'Magnetic
 Effects of Currents', 'Heating Effects of Currents' and 'Network
 Analysis'. We have added number of new solved numerical

examples and deleted others so as to make them more relevant to the current situation. A number of diagrams have been altered / re-drawn to give them a more attractive / explanatory form.

Brief Contents

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

Electricity & Magnetism

S.R. Shankara Narayana

Ex-Head, Deptt. of Physics, St. Philomena's College, Mysore

Second Revised Edition

This book is intended to cover exhaustively the syllabi of various Indian Universities on Electricity and Magnetism for the B.Sc. Degree course.

Diags. 340

Special Features

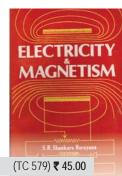
- In this edition a non-vectorial method is widely used and all results are expressed entirely in SI units.
- Considerable new material has been added to the previous edition. Many Chapters have been rewritten.

Contents

Electrostatics

Pp. vii + 408

- Magnetism
- Electric Current
- · Magnetic Effect of Currents
- · Force of Magnetic Field on Current
- Electromagnetic Induction
- Alternating Current
- · Heating Effect of a Current
- Electrolysis
- Thermo-Electricity
- Magnetic Properties of Matter
- · Electromagnetic Field Theory
- · Electrical Circuit Analysis.



(10017) (10100



Solid State Physics – Theory, Applications and Problems

S.L. Kakani, M.Sc., Ph. D.
Principal (Retd.)
(Formerly Convener BOS and
Member Research Board MDS Univ., Ajmer)

C. Hemrajani, M.Sc., Ph. D.
P.G. Deptt. of Physics, M.L.V. Govt. College,
Bhilwara

Fourth Revised Edition Reprint

Pp. xx + 1056

ISBN 81-8054-399-4 (TC-574) ₹ 500.00

Special Features

The purpose of this book is to provide a suitable textbook in Solid State Physics for M.Sc. (Physics), B.Sc. (Hons.) and B.E. (Material Science) students.

In writing the present text authors' principal concern has been the student. They have taken special care to present the concepts of the mathematical approaches so as to make them more natural and straightforward. The subject-matter has been methodically and systematically arranged.

To make the book more useful, at the end of each chapter summary and large number of selected problems which appeared in various university examinations have been given.

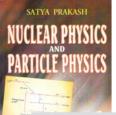
The latest edition of this book includes several additions, improvements, corrections and a number of new topics. Besides, significant advances in the field have been added and discussed in detail. New chapters on High Temperature Superconductivity, Applications of Superconductivity, Super fluidity and Fiber Optics have been added. Several chapter for examples

Semiconductors, Magnetism have been rewritten. A good number of new worked out problems have been added. To make the book more useful for UGC-CSIR: NET, SLET and other entrance examinations, a good number of objective and short question-answers have been added.

Brief 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 & Devices Magnetism & Magnetic Materials Dielectrics and Ferro electronics, Optical Properties of Solids Imperfections in Crystals
- Magnetic Resonance
 Superconductivity
 New Superconductors
 High Temperature Superconductivity
 Application of superconductivity
 Super fluidity
 Mössbauer Effect
- Masers and Lasers
 Optical Fiber
 Quantum Statistics
 Experimental Techniques
 Group Theory
 Appendices
 Suggested Reading
 Subject Index.



Nuclear Physics & Particle Physics

Satya Prakash

Vardhaman College, Bijnor

First Edition Reprint

Pp. xvi + 480

ISBN 978-81-8054-993-9 (TC-589) ₹ 400.00

The present book Nuclear Physics & Particle Physics is for degree, honours and post-graduate of students of all Indian Universities.

Special Features

- The subject matter has been divided into twelve chapters.
 The initial nine chapters are devoted to Nuclear Physics;
 the net chapter deals with Nuclear Instrumentations. This chapter gives the knowledge to accelerate and detect all types of particles. The last two chapters have been devoted to Elementary Particles and Cosmic Rays.
- The subject matter has been discussed physically and mathematically in a systematic way starting from basic concepts, keeping in mind the actually difficulties of students.

- Efforts have been made to make the treatment simple, lucid and rather comprehensive.
- After each topic a sufficient number of solved examples have been added.
- At the end of each chapter the selected set of 'Questions and Problems' has been given.

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 & Detectors • Elementary Particle Physics • Cosmic Rays.

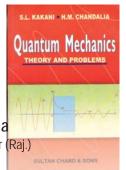


Quantum Mechanics

(Theory and Problems)

S.L. Kakani, M.Sc. (Phy.), Ph.D. Principal (Retd.) (Formerly Convener BOS and Member Research Board MDS Univ., Ajmer)

H.M. Chandalia M.S.J. College, Bharatpur (Raj.)



Fourth Edition Reprint

Pp. *xvi* + 872

ISBN 81-8054-215-7 (TC 573) ₹ 300.00

Special Features

The subject-matter is developed in a natural way and systematically. Attempts have been made to give mathematical and physical basis for various assumptions in Quantum Theory wherever found necessary. Many problems have been solved in full and every step follows from the previous one. The authors have prepared it for M.Sc. (Phy. and Chem.), M. Phil., B.Sc. (Hons.) and Research Students.

The book has been thoroughly revised and following changes have been made:

Good number of solved and unsolved problems and new chapters have been added • Good number of short question answers and objective questions have been added so that book may be found useful for UGC-CSIR: NET, SLET and other entrance examinations • Several chapters have been rewritten, enlarged and subject matter upgraded • The misprints and omissions have been removed as far as possible.

Contents

Inadequacy of Classical Mechanics and the Empirical Foundation of Quantum Theory · Wave Packets · Schödinger Wave Equation and Linear Operators • Coordinate and Momentum Representations and Heisenberg's Uncertainty Relations for a set of Non-commuting Operators • Potential Probs. in One Dimension • Harmonic Oscillator (Vibrational Motion of a Particle) Potential Problems in Three Dimensions and the Hydrogen Atom • Orbital Angular Momentum & Spin • Identical Particles • Vector Spaces and Matrix Formulation of Quantum Mechanics • Angular Momentum • Invariance Principles and Conservation Laws · Approximate Methods · Semiclassical Theory of Radiations • Quantum Theory of Radiations • Scattering • Relativistic Wave Equation • Elements of Quantum Field Theory • Elementary Particles • Appendices • Suggested Readings • Subject Index.

Mechanics

S.R. Shankara Narayana

St. Philomena's College, Mysore

K.L. Chopra

Contents

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- · Newton's Laws of Motion: Frames of Reference
- · Circular Motion: Rotating Frames of Reference
- Special Theory of Relativity

Hans Raj College, Delhi

- · Conservation Laws
- Motion of a System of Particles
- Oscillation

Pp. 437

- Gravitation
- Motion of Rigid Body
- Motion of Charged Particles in Electric and Magnetic **Fields**
- Index.

(TC 585) ₹ 20.00



Mechanics and Properties of Matter

S.R. Shankara Narayana

Head, Department of Physics, St. Philomena's College, Mysore

Second Edition Diags. 425 Pp. xxiv + 596 22 × 14 cm. (TC 582) ₹ 40.00

Contents

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M.N. SRINIVASAN S. BALASUBRAMANIAN R. RANGANATHAN

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Hydrostatics • Production and Measurement of Low Pressure • Appendices (Friction, Statics, Centre of Gravity, Impact, Simple Harmonic Motion).

A Textbook of Practical Physics

for B.Sc. Students with Physics Major

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C. Abdul Hakeem College, Melvishram

S. Balasubramanian

SULTAN CHAND & Guru Nanak College, Chennai

R. Ranganathan

Voorhees College, Vellore

Second Rev. Edition Reprint 2017

Pp. viii + 684

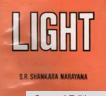
ISBN 978-81-8054-744-7 (TC-601) ₹ 110.00

This books has been written for B.Sc students who have taken Physics as a subject of study at the Major level. It covers the syllabi of all Universities of Tamil Nadu and Pondicherry in general and Madras University in particular. In this book the experiments have been dealt with exhaustively keeping in mind the requirements and expectations of the students in the university examinations. They are presented in a simple and lucid style to make the students follow the procedure very easily

while doing the experiments. A large number of illustrative diagrams are given in such a way that the students may fine them easy to draw.

Contents

Mechanics and Properties of Matter • Heat • Sound • Light • Magnetism • Electricity • Electronics • University Questions • Data of Physical Constants.



Light

S.R. Shankara Narayana

St. Philomena's College, Mysore

Second Edition

Ques. with Ans. 206

Diags. 249

Pp. *xi* + 317

(TC 581) ₹ 35.00

Special Features

- A very large number of worked examples are included to make the book more useful.
- The book is for the B.Sc. Degree classes of Indian universities.
- The emphasis has been on giving a clear, simple and correct account of the subject.
- Many new topics have been added in the revised edition.
 Five new chapters on Electro-magnetic Theory of Light, Lasers Holography, Photometry and Spectroscopy have

been added. Some topics which are specially useful in some university have been given in separate section under the title Miscellaneous Topics.

Contents

Velocity of Light • Refraction at Spherical Surfaces • Dispersion • Lenses • Wave Theory • Interference • Diffraction • Polarisation

• Electro-magnetic Field • Photometry • Scattering of Light • Spectroscopy • Doppler Effect • Laser and Holography • Appendix • Miscellaneous Topics.

Pp. xvi + 564



A Textbook of Optics with Atomic Physics

Dr. S.L. Kakani

M.L.V. College, Bhilwara

Second Thoroughly Revised Edition Reprint 2015

K.C. Bhandari

Sukhadia University, Udaipur

Sukriadia Offive

ISBN 978-93-5161-040-3 (TC-572) ₹ 395.00

The book has been thoroughly revised and enlarged. Some of the new topics included are: Photometry, Fibre Optics, Optical Instruments, Lasers and Holography, Non-linear Optics, Explanation of Total Internal Reflection, Reflection and Refraction of a Spherical Wavefront at Spherical Surface, Febry Perot Interferomater, Focault's Rotating Mirror Method, Michelson's Method, Pease and Pearson Method, Velocity of Wireless Waves, Microwave Cavity Method, Laws of Refraction at Spherical Surface etc. have been added. Chapters on Electromagnetic Ways, Interference, Velocity of Light, Matter waves and Uncertainty Principle and Wave Mechanics have been thoroughly revised and enlarged. Many new solved problems are included in this edition. The exercises at the end of each chapter have been enlarged and brought up-to-date.

Salient Features

- Written in accordance with latest syllabi of B.Sc. (Pass), B.Sc. (Hons.) and B.E. Courses.
- Basic principles and fundamental concepts are explained in simple language.
- A large number of self-explanatory accurate diagrams and tables have been given.

 A large number of short answer questions, objective questions, True/False and Fill in the Blanks type questions have been added for testing understanding of the concepts. These will be useful also for various competitive entrance examinations for example IIT, IAS, NET-SLET, UGC-CSIR etc.

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 Plan of Polarisation) • Non-linear Optics • Cardinal Points of a System of Coaxial Lenses • Dispersion of Light • Velocity of Light • Fermart'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.

Elements of Electronics

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

Hans Raj College, University of Delhi, Delhi

Second Edition Problems 210

343 illustrative diagrams

Pp. *xii* + 343

(TC 597) ₹ 40.00

Elements

Electronics

Special Features

- · Simple language and lucid style.
- · A large number of illustrative diagrams.
- Solved Examples illustrating the various fundamental concepts.
- Network Theorem The Basic 'Foundation' of 'Electrical' and 'Electronic Engineering' – Discussed in detail (using simple Mathematics) in the very first chapter of the book.

 'Electronics' syllabi of B.Sc. (Hons.) Physics, B.Sc. (General) as well as substantial portions of B.Sc. (Hons.) Electronics syllabi covered in detail and in depth.

Brief Contents

Elements of Network Analysis • Electron Tubes and their Characteristics • Semi-Conductors • Rectifiers and Filters • Simple Triode Amplifiers • Transistor Amplifiers • Operational Amplifiers • Valve Sinusoidal Oscillators • OP-AMP, FET and BJT, Sinusoidal Oscillators.



Sound: Waves and Oscillations

S.R. Shankara Narayana

Head, Department of Physics, St. Philomena's College, Mysore

Second Rev. Edition

Ques. with Ans. 187

Diags. 115

Pp. *viii* + 184 ₹ 13.00

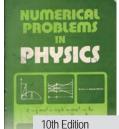
Special Features

- · The emphasis has been on giving a clear, simple and correct account of the subject.
- A very large number of worked examples are provided.

Contents

- · Simple Harmonic Motion
- · Composition of Simple Harmonic Motion

- Damped and Forced Oscillator
- Wave Motion
- Superposition of Waves
- Vibrations of Strings, Bars and Air Columns
- Fourier Analysis
- · Doppler Effect
- Intensity of Sound; Acoustics of Buildings
- Recording and Reproduction of Sound
- · Ultrasonic.



Numerical Problems in Physics

B.L. Dhar

Pp. viii + 1042

ISBN 81-7014-196-6 (TC 568) ₹ 125.00

Special Features

A compact volume with 1050 solved examples and 700 unsolved ones for practice. Latest question papers of IIT-JEE, etc. provided. A useful guide for those appearing for XI, XII, IIT, AIIMS, CPMT, AFMC, JIPMER, BHU, BITS etc. Level: Higher Secondary and Entrance Tests

Brief Contents

- Units & Dimensions, Significant Figures, Errors
- · Vectors
- Equation of Motion
- · Laws of Motion
- · Circular Motion, Gravity and Gravitation
- · Moment of Inertia
- Universe
- · Work, Energy, Power and Friction
- · Moment of Inertia, Centre of Mass
- · Optics
- Liquids-Surface Tensions, Viscosity, Bernoulli's Theorem, Stoke's Law
- Kinetic Theory of Gases
- Thermodynamics

- Simple Harmonic Motion
- Wave Motion, Vibrations of Strings, Rods and Air Columns, Beats, Doppler's Effect, Superposition of Waves
- **Optics**
- Electricity–I
- Electricity–II (Electrical Measurements and Chemical Effects of Current
- Electromagnetic Induction Alternating Currents
- Structure of Solids
- Solids
- Physics of the Atom Bohr's Theory, Photoelectric Effect, De-Broglie Waves
- Concepts of Space, Time and Mass in Relativity
- · Nuclear Physics, Radioactivity, Nuclear Reactions and **Nuclear Energy**
- · Elementary Electronics
- Mechanics
- Heat
- Liaht
- Magnetism
- Electrostatistics
- · Multiple Choice Type of Questions, Typical Short Answers Type Questions.



Senior School Physics (For Class XI, CBSE)

N.K. Sehgal, K.L. Chopra & D.L. Sehgal

6th Edition Pp. xvi + 1208 ISBN 81-7014-331-4 (TC-592) ₹ 195.00

The present edition of the book has been thoroughly revised, updated and brought in tune with the requirements of the CBSE latest syllabus. Its UNIQUE SALIENT FEATURES are :

- · Each unit is provided with a 'GIST' at its start. This provides a list of the formulae, SI units of physical quantities and value of physical constants.
- A 'FOOD FOR THOUGHT' section has been provided at the end of each chapter to give additional ideas to stimulate thinking and enhance grasp of that chapter.
- At the end of each unit, there is a set of MCQ's (WITH ANSWERS) to enable the students to revise the contents of each unit form the point of view of various competitive examinations.
- The number of solved numerical examples as well as the number of unsolved numerical problems (with answers) has been considerably increased keeping in view of the Recent Engg. & Medical entrance exams.

Brief Contents

- Introduction to Physical World and Measurement
- · Description of Motion in One Dimension
- Description of Motion in Two and Three Dimensions
- Laws of Motion
- Work, Power and Energy
- **Rotational Motion**
- Gravitation
- · Properties of Matter
- · Heat & Thermodynamics
- Oscillations
- Waves
- Multiple Choice Questions.

(TC-593) ₹ 175.00

Senior School Physics (For Class XII, CBSE)

D.L. Sehgal, K.L. Chopra & N.K. Sehgal

5th Edition Pp. *xvi* + 1046

The book has been thoroughly revised and its 'format' thoroughly changed completely 'student friendly' form with the following SALIENT FEATURES:

Each unit is provided with a 'GIST' that provides a comprehensive list of the formulae, and SI units of physical quantities. A 'Food for Thought' section that gives, in a 'questionanswer' form additional ideas and concepts on that chapter. A special section, at the end of each chapter of each unit, that gives in a 'questions with answers' from the various CBSE Class XII Papers. A set of MCQ's (with answers in a 'Key' form) at the end of each unit. An increase in the number of solved numerical examples as well as the number of unsolved numerical problems have been given keeping in view of the recent Engg. & Medical entrance exams (with answers).

Contents

- Electrostatics
- **Current Electricity**
- · Thermal and Chemical Effects of Currents
- Magnetic Effects of Currents
- Magnetism
- Electromagnetic Induction and Alternating Currents
- Electromagnetic Waves
- · Wave Optics
- Ray Optics and Optical Instruments
- **Electrons and Photons**
- Atoms, Molecules and Nuclei
- Solids and Semi-conductor Devices
- The Universe.



Practical Physics

For Class XI & XII CBSE

N.K. Sehgal, D.L. Sehgal & K.L. Chopra

Clas	ss XI CBSE	Pp. : xii + 350	ISBN 81-7014-510-4 (TC-595) ₹ 80.00
Clas	ss XII CBSE	Pp. : xii + 360	₹ 37.50

Special Features

The present book has been designed to be a complete book in itself wherein all the experiments, their theory and relevant 'background knowledge' have been discussed in detail and depth. The book will help the students in learning systematically the methodology, underlying theory, and techniques of the various experiments.

Contents

Introductory Concepts • Graphs and Logarithms • Optics and Magnetism Experiment • Ohm's Law • Whetstone Bridge • Temperature Dependence of Resistance • Potentiometer • Joule's Mechanical Equivalent of Heat • Faraday's Laws of Electrolysis • Galvanometer • Ammeter and Voltmeter • Charging and Discharging of a Capacitor • Investigatory Projects • Projects from Electronics • Projects on 'Logic Gates' • Appendices.

Numerical Physics

N.K. Sehgal, D.L. Sehgal & K.L. Chopra

1st Edition (TC-596) Pp.: 1376 Price: Rs 125.00
Level: XI, XII, CBSE & Entrance Tests

Special Features

The motivated physics student will find mastering the technique of solving numerical problems easy once he goes through this book. About 1525 solved problems covering the latest syllabi of major entrance tests especially recent IIT-JEE & Medical entrance problems have been given. Innumerable diagrams help

make understanding concepts easy. The book is a must for students preparing for engineering and medical entrance tests.

Contents

Measurements • Motion • Law of Motion • Work • Gravitation • Molecules • Matter • Oscillations • Waves • Electrostatics • Current Electricity • Magnetism • Electromagnetic Waves • Optical Instruments • Atoms • Semiconductor Devices • The Universe.

Objective Physics

S.L. Kakani

10th Edition Pp. *xlviii* + 1524 ISBN 81-7014-519-8 (TC-570) **Rs 250.00**Level : Entrance Tests, Medical, Engineering

Special Features

This book starts with syllabi of various entrance tests and ends with entrance test examination papers. In between it gives formula, relations, units, symbols and several multiple choice questions. In short it is an entrance test quide in a capsule.

The chapter on Synopsis has been enlarge. Two new chapters have been added these are Photometry and Musical Sound.

Contents

Synopsis • Part A – Mechanics and Properties of Matter • Part B – Heat and Thermodynamics • Part C – Optics and Sound • Part D – Magnetism, Electrostatics, Electricity, Modern Physics and Electronics • Miscellaneous Objective Questions • Appendices (Five) • Test Papers (Three).



Physics

S.R. Shankara Narayana

3rd Edition Pp.: viii + 1080 (TC-578) ₹ 110.00 Level: IIT-JEE, Medical Entrance

Special Features

This is a guide with a difference. Not just formulae and questions but also contains brief explanations to basic principles. With about 400 solved problems taken from I.I.T. and Medical entrance question papers, this book will help prepare the students for entrance tests. About 400 diagrams make the concepts more understandable.

Contents

- · Mechanics and Properties of Matter
- Sound
- Heat
- Light
- Electricity
- Modern Physics
- Additional Topics
- IIT-JEE Question Papers (Solved) and Objective Questions.

Physics

Model Papers with Complete Solutions

S.L. Kakani & C. Hemrajani

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PHYSICS Model paper with complete robustions S.L. KAKANI C. HEMRAJANI

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Special Features

This compilation of model test papers starts with syllabi of different entrance examinations. Past IIT-JEE exam. papers with solutions are given. Fifteen model papers on the pattern of IIT-JEE, and five papers on the pattern of Medical entrance have been given. Questions with answers and suggested readings provide guidance to students for entrance exams.

Contents

- Synopsis
- Syllabus: IIT-JEE Physics entrance examination
- Ten Model Papers: IIT-JEE with Solutions
- IIT-JEE Physics Examination Papers
- Solution of IIT-JEE, Physics Paper
- · Syllabus: Delhi PMT, MBBS/BDS Entrance
- · Five Model Papers with Complete Solutions
- Suggested Readings
- · Physical Constants.

Education not only teaches our children facts but also teaches them how to think and learn on their own



Textbook of Inorganic Chemistry

for B.Sc. and B.Sc. (Hons.) Students

Mohan Katyal

St. Stephen's College University of Delhi, Delhi

P.L. Soni

Head of Chemistry Department
Hans Raj College, University of Delhi, Delhi

20th Edition Reprint 2017

Pp. xxiv + 1632

ISBN 978-81-8054-792-8 (TC-633) ₹800.00

Special Features

- Solved examples, wherever possible.
- Newer topics like Organometallic Compounds, Coordination Behaviour and Analytical Expects (both Qualitative and Quantitative) of Elements, Sulphur-Nitrogen compounds, Cyclophosphenes, etc. have been included.
- Structural Features of the Compounds have been Emphasized with Figures.
- All Figures and Diagrams of the text have been redrawn mechanically which adds to the correctness, clarity and aesthetic.
- Latest IUPAC recommendations have been incorporated. For example \mathring{A} has been replaced by pm, I (Litre) by L, etc.

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 (Classical Approach) • Theory of Chemical Bonding – II (Modern Approach) • Structure of Solids • Oxidation-Reduction Reactions • Acids, Bases and Non-Aqueous Solvents • Standard Electrode Potentials • Appendix: New Type Question Bank – I.

Part II – Elements & Their Compounds: Principles and Processes of Metallurgy • Hydrogen • Water and Hydrogen Peroxide • The Elements of Group IA (i) General Characteristics • The Elements of Group IA (ii) Chemistry of Elements and their Compound • Elements of Group IIA (i)

General Characteristics • Elements of Group IIA (ii) Chemistry of Elements and their Compound • The p-Block Elements General Characteristics • Elements of Group IIIA (i) General Characteristics • Elements of Group III A (ii) Chemistry of Elements and their Compound • Elements of Group IVA (i) General Characteristics • Elements of Group IVA (ii) Carbon • Elements of Group IVA (iii) Silicon • Elements of Group IVA (iv) Gernanium, Tin and Lead • Elements of Group VA (i) General Characteristics • Elements of Group VA (ii) Nitrogen • Elements of Group VA (iii) Phosphorus • Elements of Group VA (iv) Arsenic, Antimony and Bismuth • Elements of Group VIA (i) General Characteristics • Elements of Group VIA (ii) Oxygen • Elements of Group VIA (iii) Sulphur, Sulphides • Elements of Group VIA (iv) Compounds of Sulphur • Elements of Group VIA (v) Selenium, Tellurium and Polonium • Elements of Group VIIA (i) General Characteristics of Halogens • Elements of Group VIIA (ii) The Halogens • Elements of Group VIIA (iii) Halogen Acids • Elements of Group VIIA (iv) Compounds of Halogen • Elements of Group Zero.

Part III – Transition Elements: The d-Block Elements – General Characteristics • Coordination Compounds • Elements of Group IIIB – The Scandium Group • Elements of Group VB – The Vandium Group • Elements of Group VIB – The Vandium Group • Elements of Group VIB – The Chromium Group • Elements of Group VIIB – The Manganese Group • Elements of Group VIII (i) – The Iron Triad • Elements of Group VIII B (ii) – The Platinum Triads • Elements of Group IB – The Copper Group • Elements of Group IIB – The Zinc Group • Inner Transition or f-Block Elements • Analytical Aspects of d-Block Elements • Pollution.

Appendix – 1. Typical Questions on Qualitative Analysis, 2. Volumetric analysis, 3. New Type Question Bank – (ii) • Index.

Education is the passport to the future, for tomorrow belongs to those who prepare for it today



Fundamental Principles of Inorganic Chemistry

for M.Sc. & B.Sc. (Hons.) Students

D. Banerjea

Sir Rashbehary Ghose Professor of Chemistry, Calcutta University, Kolkata

Third Edition Reprint Pp. xii + 652

Special Features

- Covers the postgraduate course in Inorganic Chemistry of all Indian universities.
- Coverage of the topics has been done from different sources.
- Three new chapters on acid-base theories, oxidationreduction and non-aqueous solvents have been introduced.
- Separate chapters have been given on Organometallic Compounds of Transition Elements, Role of Metal Complexes in Biological Systems, Inorganic and Coordination Polymers and Mechanism of Inorganic Reactions.

Contents

- · 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

ISBN 81-7014-815-4 (TC-605) ₹ 125.00

- Organometallic Compounds of Transition Elements
- Role of Metal Complexes in Biological Systems
- · Inorganic and Coordination Polymers
- Mechanisms of Inorganic Reactions
- Appendices (I-IV)
- · Subject Index.

Inorganic Chemistry Concepts

for B.Sc. and B.Sc. (Hons.) Students

P.L. Soni • Mohan Katyal

Vol. I – Pp. <i>viii</i> + 299	(TC 647) ₹ 15.00
Vol. II – Pp. <i>viii</i> + 326	(TC 648) ₹ 22.50
Vol. IIIA – Pp. <i>xiii</i> + 345	(TC 649) ₹ 22.50
Vol. IIIB – Pp. <i>viii</i> + 332	(TC 650) ₹ 27.50

Contents

Volume I – Introduction • Structure of Atom • Classification of Elements • Theory of Chemical Bonding • Theory of Acids and Bases • Standard Electrode Potentials.

Volume II – General Principles of Metallurgy • Hydrogen • Elements of Group IA • Group IIA • Group IIIA • Group IVA • Group Zero.

Volume IIIA – The p-Block Elements • Elements of Group VA • Group VI A • Group VIIA • Some Important Topics.

Volume IIIB – The d-Block Elements • Coordination Compounds • Elements of Group IIIB • Group IVB • Group VB • Group VIB • Group VIII • Group IB • Group IIB • Inner Transition of f-Block Elements • Analytical Aspects of d-Block Elements • Metal Complexes in Biological Systems • Micro Elements in Environment.



Textbook of Organic Chemistry

for B.Sc. and B.Sc. (Hons.) Students

H.M. Chawla

Department of Chemistry IIT, New Delhi

P.L. Soni

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Hans Raj College, University of Delhi, Delhi

29th Thoroughly Revised Edition Reprint 2019

Pp. xxiv + 1704

ISBN 978-81-8054-767-6 (TC-632) ₹ 795.00

Special Features

ORGANIC CHEMISTRY

- 'Explain' the matter rather than presenting the facts in an encyclopaedic manner.
- · Used reaction mechanisms throughout the text.
- The chapter on Stereo-chemistry has been thoroughly rewritten.
- Re-written the sections on Stereo-chemistry of cyclic compounds, correlation of different conformers of substituted cyclohexanes.
- The E and Z designations, the R and S nomenclature of stereo-isomers, details of symmetry elements, etc. have been added and expanded.
- Greatly expanded and rewritten 'Principles of mass spectroscopy, UV, IR and NMR spectroscopy.
- Included spectroscopic analysis of type of compounds discussed in each chapter throughout the book. These chapters have been rewritten.
- New sections on Feiser-Woodward and Feiser-Kuhn rules in UV spectroscopy, additional explanations and conclusions of various electronic transitions have been included.
- The chapter on biochemistry now includes structure and composition of the living cell.

- The chapters dealing with aromatic chemistry and heterocyclic compounds have been greatly improved over the previous editions.
- The chemistry of carbohydrates has been rewritten.
- Conformational isomerism in monosaccharides, disaccharides and polysaccharides has been explained and conversions encountered in carbohydrate chemistry have been provided.
- The chapter on proteins now includes principles of peptide bond formation and a discussion on primary, secondary, tertiary and quaternary structures of proteins.
- Newer synthesis have been added in the sections on alkaloids, terpenoids, ureides, purines and pyrimidines and synthesis and natural dyes.
- Retained resonance structures rather than the more advanced, frontier molecular orbital diagrams.

Brief Contents

Part I – General Organic Chemistry (12 Chapters & Pp. 342).

Part II - Organic Compounds (21 Chapters & Pp. 488).

Part III – Aromatic Compounds (15 Chapters & Pp. 428).

Part IV – Special Topics (9 Chapters Pp. 262).

Question Bank (Appendix 1 to 9 & Pp. 150).

Index (Pp. 8).

Aim for success, not perfection.

Never give up your right to be wrong,
because then you will lose the ability to learn new things and move forward with your life.

Remember that fear always lurks behind perfectionism



Principles of Reaction Mechanism in Organic Chemistry

for B.Sc. (Hons.) and M.Sc. Students

V.S. Parmar

University of Delhi, Delhi

H.M. Chawla

IIT. New Delhi



Second Revised Edition (Reprint) 2016

Pp. xvi + 456

ISBN 978-81-8054-672-3 (TC-621) ₹ 300.00

REACTION

The need for the second edition has given us an opportunity not only to correct the mistakes which inadvertently crept in the earlier edition but also to revised the subject matter in the light of recent advances in the field of Organic Reaction Mechanism which indeed have gone a long way in improving our understanding during such a short span of time. An important contribution to the field has been the development of Woodward-Hoffmann Rules of Orbital Symmetry to explain the so-called 'No Mechanism Reactions'. A new chapter comprising the Introduction to these rules and their role determining the Stereochemical course Electrocyclic Reactions have been added. Another striking advancement during recent year has been the revision of the structure of Hexaphenylethane. It has proved by ESR and NMR Spectroscopy that in reality like Hexaphenylethane i.e. Ethane Molecule with all the Six Hydrogens replaced by Phenyl Groups is hitherto unknown. This necessitated the re-writing of chapter fourteen.

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 References • Index.

Chemistry of Natural Products

H.M. Chawla

Indian Institute of Technology, New Delhi

B. Prakash

Regional College of Education, Ajmer

First Edition Volume I Pp. 448 (TC-606) ₹ 25.00

Special Features

- The use of spectroscopic methods has been outlined for structure elucidation.
- · A list of references is provided for further reading.

Contents

Volume I

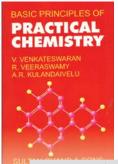
- Carbohydrates
- · Amino acids, Peptides and Proteins
- Purines and Pyrimidines
- Nucleotides and Nucleic Acids
- Chemotherapy and Chemotherapeutic Agents

· Antibiotics

- Synthetic and Natural Dyes
- · Organic Polymers and Polymerization
- Carcinogenic Polynuclear Hydrocarbons.

Volume II

- Terpenoids
- Steroids
- · Steroidal Hormones
- Vitamins, Alkaloids, Flavonoids and other Natural pigments
- Porphyrins and Haemotohydroprosis
- Lipids, Biosynthesis and Biogenesis of Natural products.





Basic Principles of Practical Chemistry

for B.Sc. & B.Sc. (Hons.) Students

V. Venkateswaran, R. Veeraswamy & A.R. Kulandaivelu

Department of Chemistry, Erode Arts College, Erode-638 009

Second Edition (Reprint) 2017

Pp. xvi + 360

ISBN 978-81-8054-776-8 (TC-659) ₹ 200.00

This book covers the entire Practical Chemistry for B.Sc. degree course in a way which is very simple to follow. The basic principles have been explain for every experiment and calculations have been illustrated nicely. The subject matter has been dealt with in a proper sequence as the division of the subject matter has been done systematically. The material presented and the experimental procedure outlined have been written in a clear, lucid and logical manner. Above all, the book has been written in a simple language making every one feel very comfortable.

Special Features

- Describes the qualitative and quantitative analyses of inorganic and organic compounds.
- Basic principles of each experiment have been explained.
- · Division of the subject-matter has been done systematically.

- · Model calculations and illustrations have been given for easy understanding.
- Preparation of organic complexes has been included.
- Important physical constants have been given in 15 Appendices.
- · Preparation of Reagents and Solutions is given in one chapter.

Contents

Practical Inorganic Chemistry • Volumetric Analysis • Gravimetric Analysis • Physical Chemistry Experiments • Practical Organic Chemistry • Reagents and Solutions • Appendices • References Some Additional Experiments for Madras University Students Logarithm Table • Antilogarithm Table • Index.

Allied Chemistry

ISBN 81-8054-408-7 (TC-614) ₹ 85.00

(For Non-Chemistry Majors)

S. Sundaram, M.Sc., Ph.D.

Former Reader, Department of Chemistry Ramakrishna Mission Vivekananda College, Chennai

R. Gopalan, M.Sc., Ph. D.

Former Head, Department of Chemistry Madras Christian College (Autonomous), Chennai

Fourth Edition

Chemistry

Allied

Pp. viii + 316

This edition conforms to the revised B.Sc. Allied Chemistry Syllabus of the University of Madras.

This book can be used by the chemistry major students also as an introductory guide-book.

Contents

Covalent Bond • Hydrides and Nitrides • Interhalogen Compounds Compounds of Sulphur • Metals and Alloys • Extraction of Metals

• Coordination Chemistry-II • Coordination Chemistry-II • Industrial Chemistry • Chemistry of Environmental Pollution • Isomerism • Some Industrially Important Organic Compounds • Chemotherapy

• The Covalent Bond • Electron-Displacement Effects • Aromatic Compounds: Substitution Reactions • Aromatic Compounds: Naphthalene · Carbohydrates · Amino Acids and Proteins · Energetics • Solutions • Chromatography • Electrochemistry–I • Electrochemistry-II • The Phase Rule • Photochemistry • Question Bank • University Question Papers.

Chemistry is one way of viewing and understanding man, his environment and his problems. A basic knowledge of chemistry is essential for understanding several principles and applications of physics, botany and zoology. Therefore students majoring in these branches of science are required to study chemistry as an allied or ancillary subject. This book, 'Allied Chemistry - For Non-Chemistry Majors' has been written with a view to fulfill this requirement. In this book, the basic concepts of chemistry are presented in a simple manner that can be easily understood by students of other sciences. The coverage of the subject is not, however, complete, but aims to provide a map of the important areas of basic chemistry.

The applications of chemistry in physics and biological sciences have been highlighted when dealing with various ξ chemical principles. Each chapter contains solved problems and a set of questions and key definitions.



Textbook of Physical Chemistry

for B.Sc. and B.Sc. (Hons.) Students

P.L. Soni

Hans Raj College, University of Delhi, Delhi

Twenty-third Revised Edition Reprint 2016

O.P. Dharmarha

Rajdhani College, University of Delhi, Delhi

U.N. Dash

Department of Chemistry, Utkal University, Bhubaneswar, Orissa

Pp. *xxiv* + 1795

ISBN 978-81-8054-527-6 (TC-634) ₹800.00

Special Features

- Emphasis on Correlation of various properties of elements and their compounds with their electronic structure and othe modern concepts.
- Explains the various physical concepts of chemistry in a very lucid form.
- Mathematical deductions are presented in a simple and logical manner.
- New type of questions, numerical problems, etc. have been incorporated.
- Emphasis on questions from IIT/PMT/Engg. and Civil Services Examinations.

The major improvements in the latest edition are:

- Thorough revision of first ten chapters of Part I of the book, that is, up-to page 1.360
- Addition of two new chapters namely Irreversible Thermodynamics and Statistical Thermodynamics at the end of Part II of the book.
- The chapters have been improved by making suitable additions and modifications to facilitate understanding of the subject matter. The solved numerical problems in the relevant chapters have been dealt with in SI units.

Contents

Part One

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

of Chemical Bounding (ii) – Modern Approach • Appendix : New Type Question Bank (I).

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

Unit III – Thermodynamics – Introduction to Chemical Thermodynamics • The First Law of Thermodynamics • Thermo Chemistry • The Second Law of Thermodynamics • The Third Law of Thermodynamics • Chemical Equilibrium • Nernst Distribution Law • The Phase Rule.

Part Two

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.

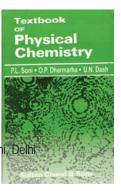
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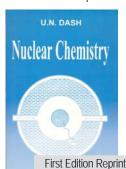
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Appendix 5 – Glossary.



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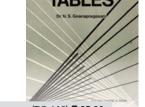
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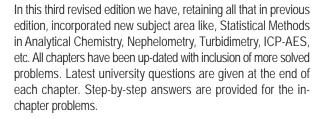
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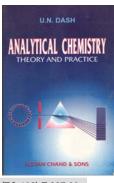
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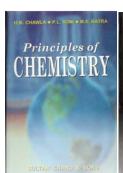
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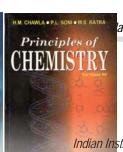
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Indian Institute of Technology

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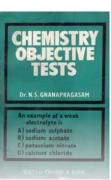
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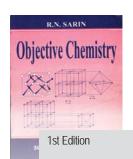
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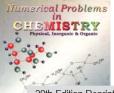
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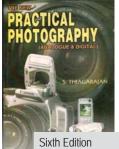
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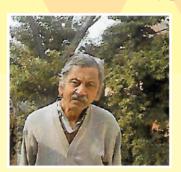
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Shri Subhash Chand Aggarwal belonged to an illustrious family. His grandfather, Master Amir Chand ji, was a dedicated teacher, social reformer and revolutionary, who took an active part in the freedom movement. He was awarded death sentence in 1915 for his involvement in the Hardinge Bomb Case by the then British Government. His father, Shri Sultan Chand ji, was the founder of M/s S. Chand & Company (1917) and M/s Sultan Chand & Sons (1950) and a pioneer in the field of publishing school and college-level text books by Indian teachers. He set up several trusts, prominent being Shri Sultan Chand Trust, Sultan Chand Dropadi Devi Education Foundation and Dr Usha Aggarwal Trust, to award scholarships to meritorious

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