

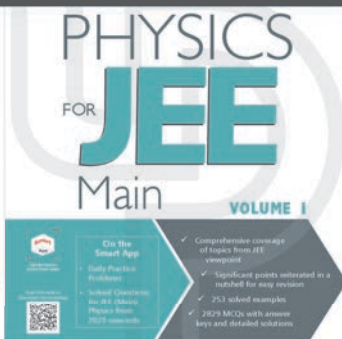
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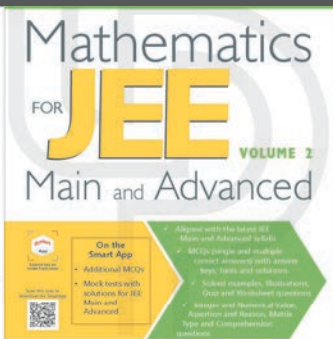
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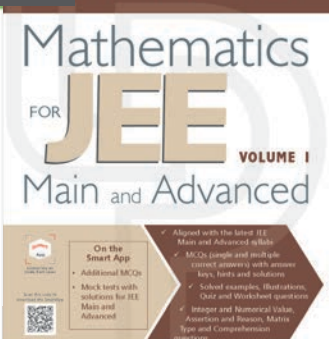
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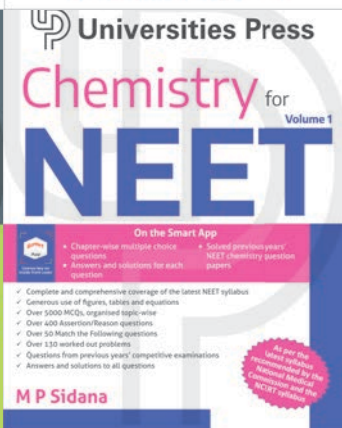
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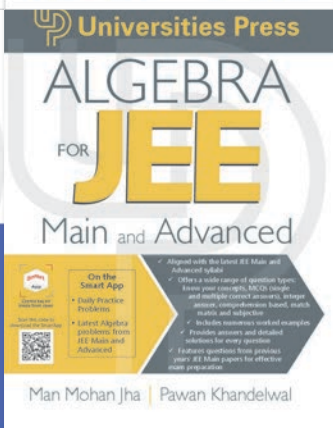
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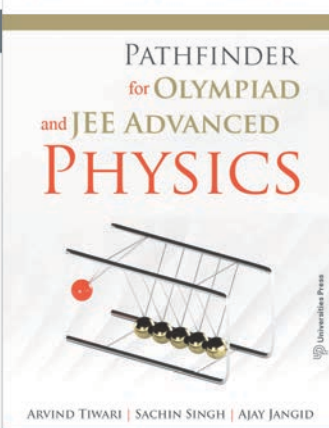
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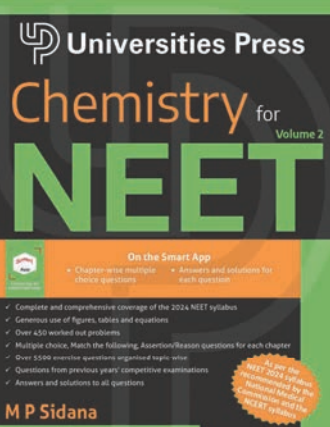
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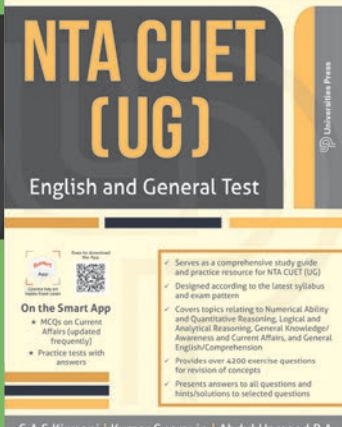
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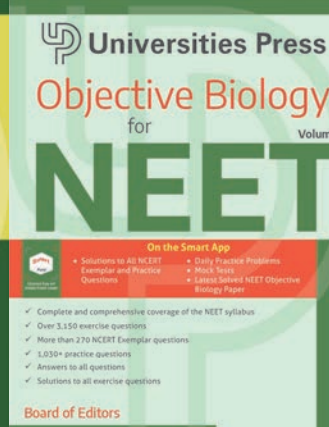
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NEET

Biology for NEET, Volume 1
(Second Edition)

REVISED EDITION

Abhimanyu Kumar JhaProfessor and Head, Department of Biotechnology
School of Engineering and Technology, Sharda
University Greater Noida, India**Runjhun Mathur**Research Scholar, Dr. A.P.J. Abdul Kalam Technical
University Lucknow, India**Meenakshi Jha**

Research Scholar, Amity University, Raipur, India



This book aims to prepare medical aspirants for the NEET Biology examination.

Volume 1 explores the topics studied in Class 11. It provides in-depth coverage of the NEET syllabus and uses a target-oriented approach, with greater emphasis on the basics and gradual progression to advanced topics. It works towards maximizing students' knowledge of the subject while also enhancing their problem-solving and time management abilities.

Salient features:

- Complete coverage of all topics as per the NEET syllabus
- Content presented as bullet points, making it more reader-friendly
- Over 4800 exercise questions (with answers) categorized based on difficulty level
- Over 1900 questions (with answers) from previous years' NEET papers
- About 575 assertion-reason questions with answers
- Tips and tricks to help students remember and recall important concepts

- Android app with daily practice problems, additional chapter-wise exercises, mock tests and previous years' solved NEET Biology question papers

Contents: *About the Authors* | *Preface to the Second Edition* | *Preface to the First Edition* | *Acknowledgements* | *The Living World* | *Biological Classification* | *Plant Kingdom* | *Animal Kingdom* | *Morphology of Flowering Plants* | *Anatomy of Flowering Plants* | *Structural Organization in Animals* | *Cell: The Unit of Life* | *Biomolecules* | *Cell Cycle and Cell Division* | *Photosynthesis in Higher Plants* | *Respiration in Plants* | *Plant Growth and Development* | *Breathing and Exchange of Gases* | *Body Fluids and Circulation* | *Excretory Products and their Elimination* | *Locomotion and Movement* | *Neural Control and Coordination* | *Chemical Coordination and Integration* | *Class 11 Questions and Solutions from Previous Years' NEET Biology Question Papers*

2024

978-93-93330-89-5

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Biology for NEET, Volume 2
(Second Edition)

REVISED EDITION

Abhimanyu Kumar JhaProfessor and Head, Department of Biotechnology
School of Engineering and Technology, Sharda
University Greater Noida, India**Runjhun Mathur**Research Scholar, Dr. A.P.J. Abdul Kalam Technical
University Lucknow, India**Meenakshi Jha**

Research Scholar, Amity University, Raipur, India



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- Over 1200 questions (with answers) from previous years' NEET papers
- About 380 assertion–reason questions with answers
- Tips and tricks to help students remember and recall important concepts
- Android app with daily practice problems, additional chapter-wise exercises, mock tests and previous years' solved NEET Biology question papers

Contents: *About the Authors | Preface to the Second Edition | Preface to the First Edition | Acknowledgements | Sexual Reproduction in Flowering Plants | Human Reproduction | Reproductive Health | Principles of Inheritance and Variation | Molecular Basis of Inheritance | Evolution | Human Health and Disease | Microbes in Human Welfare | Biotechnology – Principles and Practices | Biotechnology and Its Applications | Organisms and Populations | Ecosystem | Biodiversity and Its Conservation | Mock Test I | Mock Test II | Previous Years' Solved Question Papers*

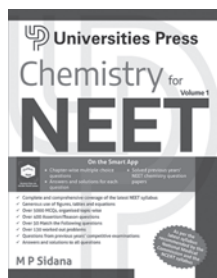
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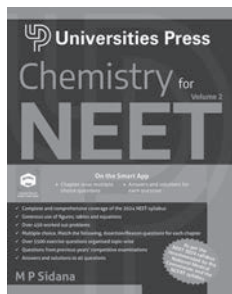
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Contents: *Preface | Acknowledgements | Basic Concepts of Chemistry | Structure of Atom | Classification of Elements and Periodicity in Properties | Chemical Bonding | States of Matter | Chemical Thermodynamics | Chemical Equilibrium | Ionic Equilibrium | Redox Reactions | Hydrogen and its Compounds | s-Block Elements | p-Block Elements | Organic Chemistry | Hydrocarbons*

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Salient features

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- Over 4900 MCQs, organised topic-wise
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- Over 60 Match the Following questions
- Over 30 worked out problems
- Questions from previous years' competitive examinations
- Answers and solutions to all questions
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Contents: Preface ♦ Acknowledgements ♦ Solid State ♦ Solutions ♦ Electrochemistry ♦ Chemical Kinetics ♦ Surface Chemistry ♦ General Principles and Processes of Isolation of Elements ♦ *p*-Block Elements ♦ *d*-

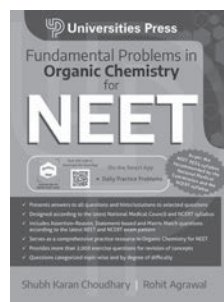
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Rohit Agrawal

Formerly Joint Director, Nucleus, Kota, and Faculty Member, ALLEN Career Institute, Kota, India



This book is a comprehensive compendium of exercises and problems in Organic Chemistry with an emphasis on the new NEET syllabus. The questions featured in this book have been carefully selected from NCERT, NCERT Exemplar and previous NEET exams.

This book also presents answers to all questions and detailed solutions, as well as relevant diagrams and reactions, or hints to selected questions. The main aim in doing so is to enable students to assess and improve their problem-solving ability.

Salient features

- Provides over 2,000 exercise questions
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- Provides hints/solutions to critical questions
- Designed according to the latest National Medical Commission and NCERT syllabi
- Includes Assertion–Reason, Statement-based and Matrix Match questions according to the latest NEET and NCERT exam pattern

- Within each chapter, questions given topic-wise and categorized by difficulty level
- Includes Android app with daily practice problems

Contents: *Preface and Acknowledgements* | Nomenclature of Organic Compounds | General Organic Chemistry | Isomerism | Hydrocarbons | Purification Methods, Qualitative and Quantitative Analysis | Haloalkanes and Haloarenes | Alcohol, Phenol and Ether | Aldehyde, Ketone and Carboxylic Acid | Amines | Aromatic Compounds | Biomolecules

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Objective Biology for NEET, Volume 1

Board of Editors



This book provides all the knowledge, practice and coaching that students need to crack the NEET Biology exam.

Volume 1 deals with the topics covered in Class 11, comprising the living world; biological classification; the plant and animal kingdoms; morphology and anatomy of flowering plants; structural organisation in animals; cell, cell cycle and cell division; biomolecules; transportation, mineral nutrition, photosynthesis, respiration and growth and development in plants; digestion and absorption; breathing and exchange of gases, body fluids and their circulation; excretory products and their elimination; locomotion and movement; neural control and coordination; and chemical control and integration.

Salient features

- Comprehensive compilation of objective questions from previous years' NEET papers

- Exercises comprise multiple choice, true/false, fill in the blank, match the following and diagram-oriented questions
- Indispensable compendium enables students to prepare with efficiency and accuracy
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Dheeraj Pratap Singh

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This books provides all the knowledge, practice and coaching that students need to crack the NEET Biology exam.

Volume 1 deals with the topics covered in Class 11. This second edition has been fully updated to conform to the latest National Medical Commission and NCERT syllabi. It includes Assertion–Reason,

Statement-based and Matrix Match questions according to the latest NEET and NCERT exam pattern. Within each chapter, the questions have been given topic-wise and categorized by difficulty level. In addition, it includes the previous years' solved NEET Biology question papers.

Objective Biology for NEET, Volume 2

Board of Editors



This book provides all the knowledge, practice and coaching that students need to crack the NEET Biology exam.

Volume 2 deals with the topics covered in Class 12, comprising reproduction in organisms; sexual reproduction in flowering plants; human reproduction; reproductive health; principles of inheritance and variation; molecular basis of inheritance; evolution; human health and diseases; strategies for enhancement in food production; microbes in human welfare; biotechnology—principles, processes and applications; organism and population; ecosystem; biodiversity and conservation; and environmental issues.

Salient features

- Comprehensive compilation of objective questions from previous years' NEET papers
- Exercises comprise multiple choice, true/false, fill in the blank, match the following and diagram-oriented questions
- Indispensable compendium enables students to prepare with efficiency and accuracy
- One-stop knowledge and practice treasure-trove for students that will help them to hone their

time management skills and create a unique strategic approach for the exam

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Physics for NEET, Volume 1**SAS Kirmani**

Founder, Erore Educational Infotech Private Limited,
New Delhi, India



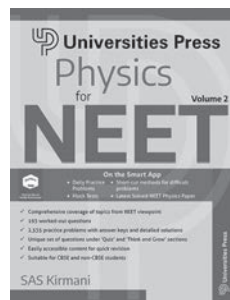
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This book conforms to the latest NEET syllabus. Volume 2 of the book covers the NCERT syllabus for Class XII. The questions compiled in the book are in strict accordance with the current trend seen in the CBSE and NEET examinations. The book provides a clear and logical presentation of the basic concepts, principles and their applications. It discusses a broad range of problems with sound physical arguments and problem-solving methodology. Each chapter is supplemented with a set of 'Quick Questions' framed under 'Quiz' and 'Think and Grow' sections to promote logical thinking and a spirit of inquiry among the students. The book also has app-based content that includes daily practice problems and mock tests for quick revision.

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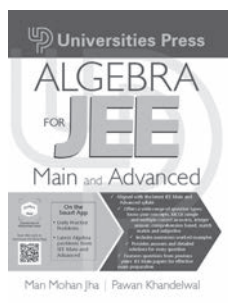
JEE

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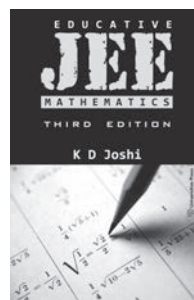
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K D Joshi

Adjunct Faculty, Department of Mathematics, College of Engineering, Pune, India



The Joint Entrance Examination (JEE), the gateway to the IITs—India's prestigious institutes of learning—is considered as one of the toughest examinations conducted in India. Inevitably, there is competition to succeed in it. While such a competition is not bad in itself, the undesirable consequence is that in the mad rush to solve problems, the educative value of a problem is often lost. The thought process of students is thus skewed into solving problems (mostly by analogy) without thoroughly understanding the basic concepts underlying the problems and without a corresponding development of the thinking ability. Consequently, they are often unable to offer logical negation of a statement, even though they are intellectually capable of it.

This book is an attempt to lay before students both the concepts as well as the process of solving problems at the JEE. The problems have been collected mostly from JEE papers ranging over a

period of two decades. The thrust is not so much on solving the problems as in the assimilation of the theory behind them and learning a few related new concepts. The solutions then come as natural corollaries. The book also contains some helpful tips aimed at sharpening the thinking ability and increasing the mathematical maturity of the student. New problems and an occasional new solution to an existing problem were added in the second edition. In this edition, two appendices, one on matrices and the other on solid coordinate geometry, have been added in view of the changes in JEE syllabus. Further, all the errors in the earlier two editions, listed as errata in the author's blog, have been corrected, and occasionally, a new solution to an existing problem has been included.

Contents: *Preface to the Third Edition* | *Preface to the First Edition* | *Disclaimer about JEE* | **Part-I Precalculus Mathematics: Counting Problems** | Basic Algebra | Theory of Equations | Number Theory | Binomial Identities | Inequalities | Trigonometric Identities | Geometry | Coordinate Geometry | Trigonometric Equations | Solution of Triangles | Heights and Distances | *Answers to exercises in Part - I* | **Part -II Calculus, Vectors, Probability, Review: Maxima, Minima and Concavity** | Trigonometric Optimisation | Limits, Continuity and Derivatives | Theoretical Calculus | Areas and Antiderivatives | Definite Integrals | Differential Equations | Functional Equations and Relations | Vectors | Finitistic Probability | Infinitistic Probability | Miscellaneous Tips and Review | *Answers to exercises in Part - II* | *Appendix 1: More on matrices* | *Appendix 2: Solid coordinate geometry* | *Index*

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Mathematics for JEE Main and Advanced, Volume 1



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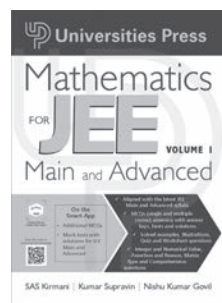
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Kumar Supravin

Haryana Water Resources Authority, Chandigarh, India

Nishu Kumar Govil

Physics Wallah, Noida, India



Mathematics for JEE Main and Advanced Volume 1 caters to the needs of Class XI students preparing for JEE. The questions compiled are in strict accordance with the current trend seen in JEE exam pattern. The book provides a clear and logical presentation of the basic concepts, principles and their applications. It presents a wide assortment of problems that have appeared over the years in previous Main and Advanced papers along with their answers and elaborate work-out methods, wherever required.

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Mathematics for JEE Main and Advanced, Volume 2



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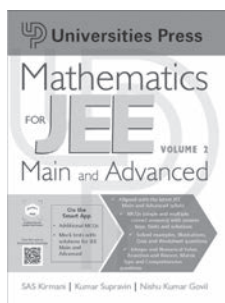
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Mathematics for JEE Main and Advanced, Volume 2 is an ideal resource for Class XII students preparing for the JEE. Spread across 12 chapters, the book offers a logical explanation of the concepts along with a wide range of solved examples and problems that reflect the current JEE pattern. The questions have been compiled to correspond with the relative weightage given to the various topics and include MCQs, Integer and Numerical Value, Comprehension and Matrix-matching type questions for thorough practice.

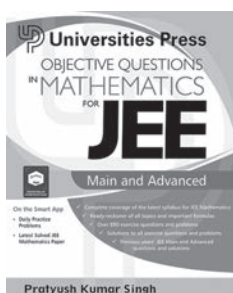
Contents: Preface | About the Authors | Relations and Functions | Inverse Trigonometric Functions | Matrices | Determinants | Continuity and Differentiability | Application of Derivatives | Integrals | Application of Integrals | Differential Equations | Vectors | Three-dimensional Geometry | Probability

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Objective Questions in Mathematics for JEE Main and Advanced

Pratyush Kumar Singh

Founder of an IIT coaching centre in Ranchi, India



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Pratyush Kumar Singh

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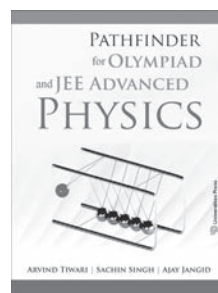
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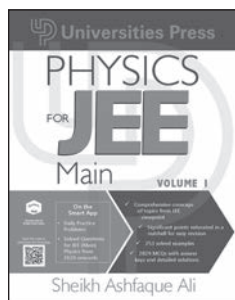
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Sheikh Ashfaque Ali

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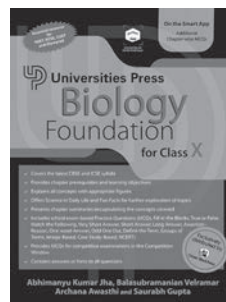
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This book is an excellent preparation resource in Biology for students of Class X appearing for the CBSE and ICSE Board examinations. It provides clear and concise explanations and covers all the topics in these syllabi, along with a variety of exercise questions drawn from the current and previous years' question papers. Answers or hints are provided for every single question.

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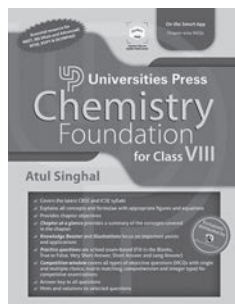
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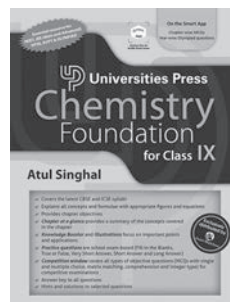
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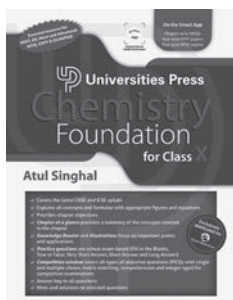
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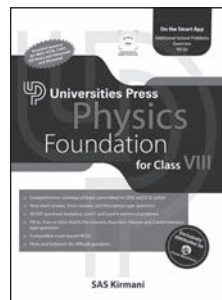
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Contents: *Preface | About the Author |* Number System | Polynomials | Pair of Linear Equations in Two Variables | Inequations | Quadratic Equation | Ratio and Proportion | Matrices | Sequence and Series | Similar Triangles | Tangent to a Circle | Constructions | Loci | Co-ordinate Geometry | Trigonometry | Applications of Trigonometry | Area Related to Circle | Surface Area and Volume | Statistics | Probability | Percentage | Profit and Loss | GST | Banking | Interest | Shares and Dividends | Work and Time | Mental Ability

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American Mathematics Competitions, University of
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Răzvan Gelca

Texas Tech. University, Department of Mathematics
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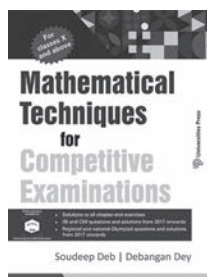
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Mathematical Techniques for Competitive Examinations**Soudeep Deb**

Assistant Professor, Indian Institute of Management
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Debangana Dey

Visiting Fellow, National Institute of Mental Health,
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This is a problem-based book aimed at high-school students interested in mathematical topics related to the ISI and CMI entrance tests as well as Mathematics Olympiads. This book will help students in designing a well-planned pathway to tackle complicated problems from topics such as number theory, combinatorics, algebra, calculus, Euclidean and coordinate geometry, probability and statistics. The problem-solving strategies and pointers described here will help students become confident in mathematics and pave the way to attaining success.

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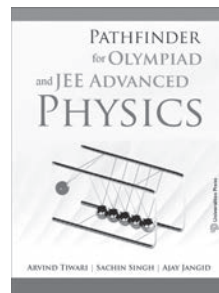
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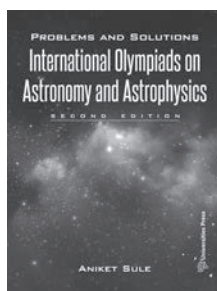
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Aniket Sule

Academic Coordinator, Indian Astronomy Olympiad Programme; Regional Coordinator (Asia-Pacific), IOAA and Reader, Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, Mumbai, India



The International Olympiads on Astronomy and Astrophysics (IOAA) are competitions where teams of high-school students from around the world compete in a series of tests and are awarded medals based on their performance. Started in 2007, more than 45 countries have participated in these olympiads. The competition comprises three rounds: theoretical problems, data analysis problems and night sky observation tests. This book presents problems from all the eight IOAAs held thus far. The problems are categorised according to the concepts involved and also graded according to the difficulty level. Solutions to all the problems are provided. Additional notes help make the solutions self-explanatory.

Contents: *Preface | Acknowledgments | Academic Committees of Previous IOAAs | President's Message | A Note about the Problems | Table of Constants | Celestial Mechanics | Celestial Coordinate Systems | Geometric Astronomy and Time | Optics and Detectors | Physics of Stars and Planets | Stellar Observations | Binaries and Variables | Galactic Astrophysics | Extragalactic Astrophysics | Night Sky Observation | Solutions | Appendix: Syllabus of IOAA*

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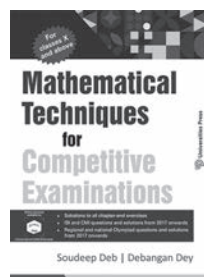
Mathematical Techniques for Competitive Examinations

Soudeep Deb

Assistant Professor, Indian Institute of Management Bangalore, Bengaluru, India

Debangana Dey

Visiting Fellow, National Institute of Mental Health, Bethesda, Maryland, USA



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- Solved examples showcasing different applications of the key results
- Useful tips in the form of tricks and techniques that can be used to solve problems
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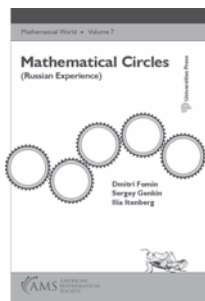
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Dmitri Fomin, Sergey Genkin and Ilya Itenberg



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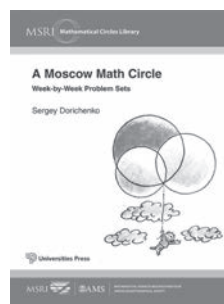
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Sergey Dorichenko

Moscow Schools 57 and 179, Moscow, Russia



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The introduction describes in detail how the math circles at Moscow State University are run. Dorichenko describes how the early sessions differ from later session, how to choose problems, and what sort of difficulties may arise when running a circle. The book also includes a selection of problems used in the competition known as the Mathematical Maze, a mathematical Circle, which is run in the Russian style.

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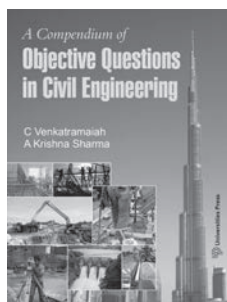
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C Venkatramaiah

Formerly Professor of Civil Engineering, S V University College of Engineering, Tirupati, India

A Krishna Sharma

Principal, Brindavan College of Engineering, Bengaluru, India



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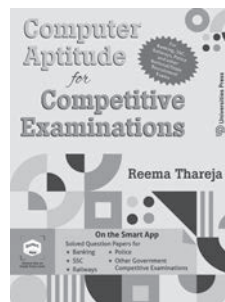
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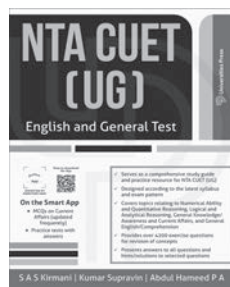
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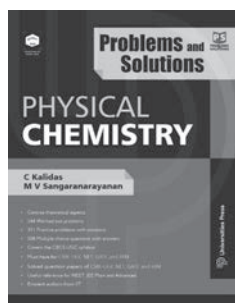
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C Kalidas

Formerly Professor, Department of Chemistry, IIT Madras and Emeritus Scientist (CSIR), IIT Madras, Chennai, India

M V Sangaranarayanan

Dr S R Rajagopalan Institute Chair Professor at the Department of Chemistry, IIT Madras, Chennai, India



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