

Iit Jam Coaching Chemistry Mathematics Physics

An advanced-level textbook of organic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of the four-volume series, entitled "A Textbook of Organic Chemistry - Volume I, II, III, IV". CONTENTS: CHAPTER 1. Nature of Bonding in Organic molecules: Delocalized Chemical Bonding; Conjugation; Cross Conjugation; Resonance; Hyperconjugation; Tautomerism; Aromaticity in Benzenoid and Nonbenzenoid Compounds; Alternant and Non-Alternant Hydrocarbons; Huckel's Rule: Energy Level of p-Molecular Orbitals; Annulenes; Antiaromaticity; Homo-Aromaticity; PMO Approach; Bonds Weaker than Covalent; Addition Compounds: Crown Ether Complexes and Cryptands, Inclusion Compounds, Cyclodextrins; Catenanes and Rotaxanes CHAPTER 2. Stereochemistry: Chirality; Elements of symmetry; Molecules with more than one chiral centre: diastereomerism; Determination of relative and absolute configuration (octant rule excluded) with special reference to lactic acid, alanine & mandelic acid; Methods of resolution; Optical purity; Prochirality; Enantiotopic and diastereotopic atoms, groups and faces; Asymmetric synthesis: Cram's rule and its modifications, Prelog's rule; Conformational analysis of cycloalkanes (upto six membered rings); Decalins; Conformations of sugars; Optical activity in absence of chiral carbon (biphenyls, allenes and spiranes); Chirality due to helical shape; Geometrical isomerism in alkenes and oximes; Methods of determining the configuration CHAPTER 3. Reaction Mechanism: Structure and Reactivity: Types of mechanisms; Types of reactions; Thermodynamic and kinetic requirements; Kinetic and thermodynamic control; Hammond's postulate; Curtin-Hammett principle; Potential energy diagrams: Transition states and intermediates; Methods of determining mechanisms; Isotope effects; Hard and soft acids and bases; Generation, structure, stability and reactivity of carbocations, carbanions, free radicals, carbenes and nitrenes; Effect of structure on reactivity; The Hammett equation and linear free energy relationship; Substituent and reaction constants; Taft equation CHAPTER 4. Carbohydrates: Types of naturally occurring sugars; Deoxy sugars; Amino sugars; Branch chain sugars; General methods of determination of structure and ring size of sugars with particular reference to maltose, lactose, sucrose, starch and cellulose. CHAPTER 5. Natural and Synthetic Dyes: Various classes of synthetic dyes including heterocyclic dyes; Interaction between dyes and fibers; Structure elucidation of indigo and Alizarin CHAPTER 6. Aliphatic Nucleophilic Substitution: The SN2, SN1, mixed SN1 and SN2, SNi, SN1', SN2', SNi' and SET mechanisms; The neighbouring group mechanisms; neighbouring group participation by p and s bonds; anchimeric assistance; Classical and nonclassical carbocations; Phenonium ions; Common carbocation rearrangements; Applications of NMR spectroscopy in the detection of carbocations; Reactivity-effects of substrate structure, attacking nucleophile, leaving group and reaction medium; Ambident nucleophiles and regioselectivity; Phase transfer catalysis. CHAPTER 7. Aliphatic Electrophilic Substitution: Bimolecular mechanisms - SE2 and SEi; The SE1 mechanism; Electrophilic substitution accompanied by double bond shifts; Effect of substrates, leaving group and the solvent polarity on the reactivity CHAPTER 8. Aromatic Electrophilic Substitution: The arenium ion: mechanism, orientation and reactivity, energy profile diagrams; The ortho/para ratio, ipso attack, orientation in other ring systems; Quantitative treatment of reactivity in substrates and electrophiles; Diazonium coupling; Vilsmeier reaction; Gattermann-Koch reaction CHAPTER 9. Aromatic Nucleophilic Substitution: The ArSN1, ArSN2, Benzyne and SRN1 mechanisms; Reactivity - effect of substrate structure, leaving group and attacking nucleophile; The von Richter, Sommelet-Hauser, and Smiles rearrangements CHAPTER 10. Elimination Reactions: The E2, E1 and E1cB mechanisms; Orientation of the double bond; Reactivity-effects of substrate structures, attacking base, the leaving group and the medium; Mechanism and orientation in pyrolytic elimination CHAPTER 11. Addition to Carbon-Carbon Multiple Bonds: Mechanistic and stereochemical aspects of addition reactions involving electrophiles, nucleophiles and free radicals; Regio- and chemoselectivity: orientation and reactivity; Addition to cyclopropane ring; Hydrogenation of double and triple bonds; Hydrogenation of aromatic rings; Hydroboration; Michael reaction; Sharpless asymmetric epoxidation. CHAPTER 12. Addition to Carbon-Hetero Multiple Bonds: Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles; Addition of Grignard reagents, organozinc and organolithium; Reagents to carbonyl and unsaturated carbonyl compounds; Wittig reaction; Mechanism of condensation reactions involving enolates - Aldol, Knoevenagel, Claisen, Mannich, Benzoin, Perkin and Stobbe reactions; Hydrolysis of esters and amides; Ammonolysis of esters.

This clear, concise and highly readable text is designed for a first course in linear algebra and is intended for undergraduate courses in mathematics. It focusses throughout on geometric explanations to make the student perceive that linear algebra is nothing but analytic geometry of n dimensions. From the very start, linear algebra is presented as an extension of the theory of simultaneous linear equations and their geometric interpretation is shown to be a recurring theme of the subject. The integration of abstract algebraic concepts with the underlying geometric notions is one of the most distinguishing features of this book - designed to help students in the pursuit of multivariable calculus and differential geometry in subsequent courses. Explanations and concepts are logically presented in a conversational tone and well-constructed writing style so that students at a variety of levels can understand the material and acquire a solid foundation in the basic skills of linear algebra.

This textbook commences with a brief outline of development of real numbers, their expression as infinite decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject. Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.

This Third Edition provides a solid and well-balanced introduction to probability theory and mathematical statistics. The book is divided into three parts: Chapters 1-6 form the core of probability fundamentals and foundations; Chapters 7-11 cover statistics inference; and the remaining chapters focus on special topics. For course sequences that separate probability and mathematical statistics, the first part of the book can be used for a course in probability theory, followed by a course in mathematical

statistics based on the second part, and possibly, one or more chapters on special topics. The book contains over 550 problems, 350 worked-out examples, and 200 side notes for reader reference. Numerous figures have been added to illustrate examples and proofs, and answers to select problems are now included. Many parts of the book have undergone substantial rewriting, and the book has also been reorganized. Chapters 6 and 7 have been interchanged to emphasize the role of asymptotics in statistics, and the new Chapter 7 contains all of the needed basic material on asymptotics. Chapter 6 also includes new material on resampling, specifically bootstrap. The new Further Results chapter includes some estimation procedures such as M-estimates and bootstrapping. A new chapter on regression analysis has also been added and contains sections on linear regression, multiple regression, subset regression, logistic regression, and Poisson regression.

Problems In General Physics

Super 30

Contemporary Abstract Algebra

SAT Prep Plus 2021

40 Days Crash Course for JEE Main Chemistry

1. "JEE MAIN in 40 Day" is the Best-Selling series for medical entrance preparations **2. This book deals with Chemistry subject** **3. The whole syllabus is divided into day wise learning modules** **4. Each day is assigned with 2 exercises; The Foundation Questions & Progressive Questions** **5. Unit Tests and Full-Length Mock Test papers for practice** **6. NEET Solved Papers are provided to understand the paper pattern** **7. Free online Papers are given for practice** **JEE Entrances are the gateway to some of the prestigious engineering technology institutions and every year nearly 10 lakh students appear in the race. The rigorous practice is required to get through the exam. Preparation never ends until the last minute if there is no proper planning done before the exam. The book "40 Days JEE Mains Chemistry" gives you an accelerated way to master the whole syllabus. Day-wise learning modules with clear grounding into concepts helps in quick learning. Each day is assigned with 2 exercises; The Foundation Questions & Progressive Questions for practice. Unit Tests and full-Length Mock Tests are given to provide the real feel of the exam. At the end of the book, there are all Online Solved papers of JEE MAIN 2020 for practice. Moreover, Free Online Practice Material can be availed for you to practice online. This book helps in increasing the level of preparation done by the students and ensures scoring high marks.** **TABLE OF CONTENT** **Preparing JEE Main 2020 Chemistry in 40 Days!**, Day 1: Some Basic Concepts of Chemistry, Day 2: States of Matter, Day 3: Atomic Structure, Day 4: Chemical Bonding and Molecular Structure, Day 5: Unit Test 1 (General Chemistry), Day 6: Chemical Thermodynamics, Day 7: Thermochemistry, Day 8: Solutions, Day 9: Physical and Chemical Equilibrium, Day 10: Ionic Equilibrium, Day 11: Unit Test 2 (Physical Chemistry-I), Day 12: Redox Reactions, Day 13: Electrochemistry, Day 14: Chemical Kinetics, Day 15: Adsorption and Catalysis, Day 16: Colloidal State, Day 17: Unit Test 3 (Physical Chemistry-II), Day 18: Classification and Periodicity of Elements, Day 19: General Principles and Processes of Isolation of Metals, Day 20: Hydrogen Day 21: s-Block Elements, Day 22: p-Block Elements (Group 13 to Group 18), Day 23: The d-and f-Block Elements, Day 24: Coordination Compounds, Day 25 Unit Test 4 (Inorganic Chemistry), Day 26: Environmental Chemistry, Day 27: General Organic Chemistry Day 28: Hydrocarbons, Day 29: Organic Compounds Containing Halogens, Day 30: Organic Compounds Containing Oxygen, Day 31: Organic Compounds Containing Nitrogen, Day 32: Unit Test 5 (Organic Chemistry-I), Day 33: Polymers, Day 34: Biomolecules, Day 35: Chemistry in Everyday Life, Day 36: Analytical Chemistry, Day 37: Unit Test 6 (Organic Chemistry-II), Day 38: Mock Test 1, Day 39: Mock Test 2, Day 40: Mock Test 3, Online JEE Main Solved Papers 2019, Online JEE Mains Solved Papers 2020.

Written by a former All India Topper, this book has been touted by several iconic IITians as the most effective book on JEE planning ever written! Anagh argues that most IITians are neither born-geniuses nor unusually intense work-machines; they are smart planners instead. He takes you behind-the-scenes to reveal how smart planning works for JEE and lays out a clear framework for goal-oriented thinking. The step by step approach outlined across 11 chapters covers everything from daily routine to efficient practice to long term motivation, all explained through real life examples and presented with time-tested proofs. It talks about achieving one's goals while not missing out on a balanced life and questions people's deepest beliefs about achieving a large and meaningful goal like IIT-JEE. After finishing the book, readers will take away not just a concrete plan to prepare for JEE, but in the words of an early reviewer, a "life-altering" change in perspective towards success. "Edifying and thought-provoking! Reading this book will help you succeed not only in JEE but also in life." - Chitraang Murdia, AIR-1 in JEE Adv, 2014 "Covers a lot of important topics and explains goal setting well" - Aman Bansal, AIR-1 in JEE Adv, 2016 "Develops a holistic strategy to ace the JEE" - Ananye Agarwal, AIR-3 in JEE Adv, 2017 "Informative and Inspirational! It unravels the inner workings of a topper's mind" - Amey Gupta, AIR-8 in JEE Adv, 2014 "It will enable students to follow tested winning strategies rather than reinvent the wheel" - Kartikeya Gupta, AIR-4 in JEE Adv, 2013 "It iterates on the timeless wisdom of BhagvadGita to excel not only in JEE but any goal in life" - Vishwajeet Agarwal, AIR-5 in JEE Main, 2017. More about the book can be found out at www.thejeeproject.com

The thoroughly revised & updated 2nd edition of the book on Chemical Bonding is designed especially in accordance with latest competitive trends. The book has been updated with the past questions of NEET, JEE Main & JEE Advanced. A new chapter entitled 'Hydrolysis of Covalent Compounds' has been added based on student's high demand. The salient features of the book are as follows: * A moderately concise and compact book covering all topics from A -Z. * Bent Rule with latest amendments and Drago's Rule * Physical properties of ionic & covalent compounds with detailed explanation. * Increasing and decreasing order of lattice energy, hydration energy, polarization and effect of these on physical properties has been done comparatively. * Simple language to make it useful even to average and weak students. * Logical and evolutionary approach in descriptions for better imagination and visualization. * Large no. of solved examples, illustrations and Objective type questions. * Miscellaneous Practice Problems as final challenge.

The present book "SET Life Science: Solved Papers" is specially developed for the aspirants of SET Life Sciences Examinations. This book includes previous solved papers SET Life Science papers of Maharashtra, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Gujarat and Rajasthan. Main objective of this book is to

develop confidence among the candidates appearing for SET examination in the field of Life Sciences. Both fundamental and practical aspects of the subject have been covered by solved questions. This book meets the challenging requirements of CSIR-NET, GATE, IARI, BARC and Ph.D entrance of various Indian universities.

Organometallic Reagents in Organic Synthesis

Elements of Real Analysis

Chemical Bonding for JEE Main & Advanced, NEET 2nd Edition

IIT JAM Physics Solved Papers and Practice sets 2022

Stereochemistry

It is a known fact that there is no substitute for hard work - However hard work must be done smartly to get the desired result. Keeping Smart Hard Work philosophy in mind, we have designed this book. As time plays an important factor & is limited in competitive exams hence the magic to score high in such examination is to solve questions accurately with speed. The ability to solve lengthy questions accurately in the shortest possible time will fetch you lead over other students resulting not only into good marks but also top rank. And the Short Tricks is sure to make it happen. For this purpose, we are elated to present a compilation of Short Tricks of Mathematics in a book form. These tricks have the edge which can make any aspirant solve questions accurately & quickly.

This book has been designed for Undergraduate (Honours) and Postgraduate students of various Indian Universities. A set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitive examinations

This immensely valuable book of Solved Previous Years' Papers & Practice Test Papers on BIOTECHNOLOGY has been specially published for the aspirants of IIT-JAM (Joint Admission Test for M.Sc.). The book comprises numerous Actual Exam questions in Solved Papers to make you familiar with the exam pattern and the type of questions asked, with their answers. Detailed Explanatory Answers have also been provided for the Selected Questions for Better Understanding. The book will prove very useful for self-practice and during the precious moments before the exam. The book will also serve as a true test of your studies and preparation with actual exam-questions, their answers and explanations. It is highly recommended to Sharpen your Problem Solving Skills with thorough practice of numerous questions provided in the book, and prepare yourself to face the exam with Confidence, Successfully. While the practice material of this book in the form of solved papers is aimed to be the Life-blood for your Success, your own intelligent study and practice, in synergy with this, will definitely Ensure you a seat in the Prestigious Course leading you to a successful career.

"This edition is packed with the latest developments and information from the labs of current researchers--including the latest findings from Genomics and RNA Interference."--Jacket

5 Practice Tests + Proven Strategies + Online

An Introduction to Electrochemistry

Schaum's Outline of Vector Analysis, 2ed

M.Sc. (Biotechnology) Previous Years & Practice Test Papers (Solved)

Optics

This book is an attempt to make presentation of Elements of Real Analysis more lucid. The book contains examples and exercises meant to help a proper understanding of the text. For B.A., B.Sc. and Honours (Mathematics and Physics), M.A. and M.Sc. (Mathematics) students of various Universities/ Institutions. As per UGC Model Curriculum and for I.A.S. and Various other competitive exams.

The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, www.cambridge.org/9780521679718.

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.

An advanced-level textbook of inorganic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities.

This book is a part of four volume series, entitled "A Textbook of Inorganic Chemistry – Volume I, II, III, IV". CONTENTS: Chapter 1.

Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, $dr\pi$ - $p\pi$ bonds, Bent rule and energetic of hybridization. Chapter 2.

Metal-Ligand Equilibria in Solution: Stepwise and overall formation constants and their interactions, Trends in stepwise constants, Factors affecting stability of metal complexes with reference to the nature of metal ion and ligand, Chelate effect and its thermodynamic origin,

Determination of binary formation constants by pH-metry and spectrophotometry. Chapter 3. Reaction Mechanism of Transition Metal

Complexes – I: Inert and labile complexes, Mechanisms for ligand replacement reactions, Formation of complexes from aquo ions, Ligand displacement reactions in octahedral complexes- acid hydrolysis, Base hydrolysis, Racemization of tris chelate complexes, Electrophilic attack on ligands. Chapter 4. Reaction Mechanism of Transition Metal Complexes – II: Mechanism of ligand displacement reactions in square planar

complexes, The trans effect, Theories of trans effect, Mechanism of electron transfer reactions – types; Outer sphere electron transfer mechanism and inner sphere electron transfer mechanism, Electron exchange. Chapter 5. Isopoly and Heteropoly Acids and Salts: Isopoly and

Heteropoly acids and salts of Mo and W: structures of isopoly and heteropoly anions. Chapter 6. Crystal Structures: Structures of some binary and ternary compounds such as fluorite, antiferite, rutile, antirutile, cristobalite, layer lattices- CdI_2 , BiI_3 ; ReO_3 , Mn_2O_3 , corundum,

pervoskite, Ilmenite and Calcite. Chapter 7. Metal-Ligand Bonding: Limitation of crystal field theory, Molecular orbital theory, octahedral, tetrahedral or square planar complexes, π -bonding and molecular orbital theory. Chapter 8. Electronic Spectra of Transition Metal Complexes:

Spectroscopic ground states, Correlation and spin-orbit coupling in free ions for 1st series of transition metals, Orgel and Tanabe-Sugano diagrams for transition metal complexes ($d1 - d9$ states), Calculation of Dq , B and β parameters, Effect of distortion on the d-orbital energy

levels, Structural evidence from electronic spectrum, John-Teller effect, Spectrochemical and nephelauxetic series, Charge transfer spectra, Electronic spectra of molecular addition compounds. Chapter 9. Magnetic Properties of Transition Metal Complexes: Elementary theory of

magneto - chemistry, Guoy's method for determination of magnetic susceptibility, Calculation of magnetic moments, Magnetic properties of free ions, Orbital contribution, effect of ligand-field, Application of magneto-chemistry in structure determination, Magnetic exchange coupling and

spin state cross over. Chapter 10. Metal Clusters: Structure and bonding in higher boranes, Wade's rules, Carboranes, Metal Carbonyl Clusters - Low Nuclearity Carbonyl Clusters, Total Electron Count (TEC). Chapter 11. Metal- π Complexes: Metal carbonyls, structure and

bonding, Vibrational spectra of metal carbonyls for bonding and structure elucidation, Important reactions of metal carbonyls; Preparation,

bonding, structure and important reactions of transition metal nitrosyl, dinitrogen and dioxygen complexes; Tertiary phosphine as ligand.

Principles of Genetics

Engineering Chemistry

IIT JAM Chemistry Solved Papers and Practice Sets 2021

Differential Calculus

A GEOMETRIC APPROACH

Textbook on modern methods of organic synthesis.

Presents a new nomenclature and covers recently discovered systems. Includes a detailed study of conformational analysis of acyclic and alicyclic compounds, the relation between conformation and reactivity, and other aspects of stereochemistry, such as substitution, addition and elimination reactions. Includes numerous examples and illustrations from the Natural Product Area.

1. IIT JAM solved papers and Practice sets are the preparatory guides for Physics, Chemistry, Biotechnology and Mathematics 2. The book is designed as per latest pattern and syllabus 3. 16 Previous years' solved papers [2021-2015] for practice 4. 3 Practice Sets are given to track the progress 5. All the answers have been well explained with details for better understanding of the concepts M.Sc. from IITs and IISc is so worthwhile and blooming for the career. After all, these institutions are known for their quality education in the fields of engineering, science and technology. Both of these institutions jointly conduct IIT JAM – an all India admission test in M.Sc. programmes, P.hD. dual degree and other post B.Sc. Courses. Start preparing yourself with newly updated edition of "IIT JAM Physics Solved Papers [2021-2015]" designed according to the latest exam pattern and syllabus. The book contains good number of Previous Years' Solved papers with their detailed and authentic solutions which fosters an exam like environment in you. 3 simultaneous Practice Sets are provided at the end for the quick revision of the paper. Step – by – step solutions to each question in solved papers and practice sets help to increase the edificial knowledge of the aspirants. TOC Solved Papers (2021-2015), 3 Practice Sets

Organometallic chemistry has always been an important part of organic chemistry, but never more so than today. The expansion of synthetic methodology employing organometallic reagents and metallo-species in the last twenty years has been phenomenal. Two major important roles which organometallic reagents play are: Providing a means of activating small molecules like O₂, CO, HCN and H₂ into larger structures Conferring diastereo- and enantioselectivity. The applications of these reagents in synthesis ranges from the synthesis of drug candidates to the design of efficient large-scale chemical processes. This book brings together experts across the whole range of fields associated with organometallic chemistry to provide a spectrum of up-to-date information. It will be of interest to organic chemists and medicinal chemists in academia and the pharmaceutical industry.

Modern Algebra (Abstract Algebra)

Numerical Chemistry

Ordinary and Partial Differential Equations

Complete Mathematics

Basic Biotechnology

The Classic Texts Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams. The present book on Higher Algebra presents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinomial Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergency & Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability, Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts

covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book. As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Always study with the most up-to-date prep! Look for SAT Prep Plus 2022, ISBN 9781506277387, on sale June 01, 2021. Publisher's Note: Products purchased from third-party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitles included with the product.

Joint Admission Test for M.Sc or JAM, as it's popularly known is an online entrance examination at PAN India level conducted by the Institutes of Technology for aspirants wanting to pursue their career in the field of Pure Sciences and Research. GK Publications has come up with a IIT JAM Preparation book for the Mathematics 2021 exam, meticulously prepared by Dr. Kuldeep Chaudhary, the book covers the entire mathematics syllabus in a detailed fashion. Apart from this, this book also consists of previous year questions of 2005 to 2016, Fully solved papers of 2017-19 & 2020 examination along with 2 full length practice papers. Features: Previous year questions of 2005 to 2016 Fully solved papers of 2017-19 & 2020 2 full length practice papers

IIT JAM (Joint Admission Test for M.Sc.) 2021 - Mathematics

SET Life Science: Solved Exam Questions

IIT-JAM

LINEAR ALGEBRA

A Plan That Actually Works

CONTEMPORARY ABSTRACT ALGEBRA, NINTH EDITION provides a solid introduction to the traditional topics in abstract algebra while conveying to students that it is a contemporary subject used daily by working mathematicians, computer scientists, physicists, and chemists. The text includes numerous figures, tables, photographs, charts, biographies, computer exercises, and suggested readings giving the subject a current feel which makes the content interesting and relevant for students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Biotechnology is one of the major technologies of the twenty-first century. Its wide-ranging, multi-disciplinary activities include recombinant DNA techniques, cloning and the application of microbiology to the production of goods from bread to antibiotics. In this new edition of the textbook Basic Biotechnology, biology and bioprocessing topics are uniquely combined to provide a complete overview of biotechnology. The fundamental principles that underpin all biotechnology are explained and a full range of examples are discussed to show how these principles are applied; from starting substrate to final product. A distinctive feature of this text are the discussions of the public perception of biotechnology and the business of biotechnology, which set the science in a broader context. This comprehensive textbook is essential reading for all students of biotechnology and applied microbiology, and for researchers in biotechnology industries.

Mathematical Physics

Anand Kumar, a mathematics prodigy, defied all challenges to set up one of the most successful and innovative teaching initiatives in the world—Super 30. Born in Chandipur Bela, Patna, Anand secured a place in Cambridge University but couldn't attend because he had no money and sold papads in the evenings instead. He dealt with his own disappointment by setting up an innovative school in 2002 to prepare underprivileged students for the IIT JEE examination. Super 30 has an astonishing success rate and on an average, twenty-seven to twenty-eight of the thirty students crack the exam every year. Stirring and heart-wrenching, this is the extraordinary story of a visionary who has elevated these bright sparks and, through education, given them hope to rise above crippling poverty.

Conformation and Mechanism

Fundamentals of Mathematical Statistics

A Textbook of Inorganic Chemistry – Volume 1

Objective Electrical Technology

Complex Numbers from A to ...Z

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback

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Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

1. IIT JAM Solved papers and Practice Sets are the preparatory guides for Physics, Chemistry, Biotechnology and Mathematics 2. IIT JAM Chemistry Solved papers and practice sets are designed as per latest pattern and Syllabus 3. 16 Previous Years' Solved papers [2020-2005] for practice 4. 3 Practice Sets are given to track the progress 5. All the answers have been well explained with details for better understanding of the concepts

Perusing MSc. form the institutes like IITs and IISCs is a great boom in ones career. Joint Admission Test for M.Sc. (JAM) is an all India admission test conducted every year for admission into M.Sc. and other post-graduate science programs at (IITs), (IISc, Bangalore), NITs etc. After all these institutions are of national importance and are well known, the world over, for quality education in engineering, science technology and research in frontier areas. The new edition of IIT JAM Chemistry Solved Papers and Practice Sets has been designed as per the new exam pattern and syllabus. This book contains Previous Solved papers (2020 - 2005) all the questions have been provided with well explained with detailed answers which help students to understand the concepts and 3 Practice Sets has been designed as per existing test pattern that helps to keep the record of progress. A perfect combo of solved Papers and Practice Sets to increase the edificial knowledge of the aspirant, this book is for everyone who is preparing to ace the upcoming IIT JAM 2021. TABLE OF CONTENT Solved Papers [2020-2005], 3 Practice sets.

The new U.G.C. syllabi for B.Sc. Part III classes have come into effect from the academic year 2004-2005. This book on 'Solid State Devices and Electronics' which is one of the subjects for B.Sc. (General) Physics-course has been written in accordance with the U.G.C. syllabus covering all the topics of solid state devices and electronics. A large number of questions and numerical problems are given at the end of each chapter.

Changing the World 30 Students at a Time

A Textbook of Organic Chemistry - Volume 1

Mathematical Physics

An Introduction to Probability and Statistics

Modern Methods of Organic Synthesis South Asia Edition

This book introduces students to vector analysis, a concise way of presenting certain kinds of equations and a natural aid for forming mental pictures of physical and geometrical ideas. Students of the physical sciences and of physics, mechanics, electromagnetic theory, aerodynamics and a number of other fields will find this a rewarding and practical treatment of vector analysis. Key points are made memorable with the hundreds of problems with step-by-step solutions, and many review questions with answers.

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