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This book provides a comprehensive understanding of each aspect of offshore operations including conventional methods of operations, emerging technologies, legislations, health, safety and environment impact of offshore operations. The book starts by coverage of notable offshore fields across the globe and the statistics of present oil production, covering all types of platforms available along with their structural details. Further, it discusses production, storage and transportation, production equipment, safety systems, automation, storage facilities and transportation. Book ends with common legislation acts and comparison of different legislation acts of major oil/gas producing nations. The book is aimed at professionals and researchers in petroleum engineering, offshore technology, subsea engineering, and explores the engineering, technology, system, environmental, operational and legislative aspects of offshore production systems. Covers most of the subsea engineering material in a concise manner. Includes legislation of major oil and gas producing nations pertaining to offshore operations (oil and gas). Incorporates case studies of major offshore operations (oil and gas) accidents and lessons learnt. Discusses environment impact of offshore operations.

This updated version of this text contains all the reactions, mechanisms, and structures of organic compounds that are key to understanding life processes.

Composite Mathematics is a series of books for Pre-Primer to Class 8 which conforms to the latest CBSE curriculum. The main aim of writing this series is to help the children understand difficult mathematical concepts in a simple manner in easy language.

This title contains an Access Code along with instructions to access the Online Material. In case you face any difficulty, write to us at ebooks.support@alets.co.in. • The book “40 Years IIT-JEE Advanced + 16 yrs JEE Main/ AIEEE Topic-wise Solved Paper MATHEMATICS with Free ebook” is the first integrated book, which contains Topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-16 JEE Advanced) questions from 1978 to 2016 and past JEE Main (including 2002-2012 AIEEE & 2013-16 JEE Main) questions from 2002 to 2016. • The new edition has been designed in 2-colour layout and comes with a Free ebook which gives you the power of accessing your book anywhere - anytime through web and tablets. • The book is divided into 23 chapters. The flow of chapters has been aligned as per the NCERT books. • Each divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer MCQs and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3200+ MILESTONE PROBLEMS IN CHEMISTRY. How does the FREE ebook help? • Provides the Digital version of the book which can be accessed through tablets and web in both online and offline mediums. • Also provides the AIEEE Rescheduled 2011 paper and 1997 IIT-JEE cancelled paper. • Alternate Solutions to a number of Questions. • Quick Revision Material. Have you ever fallen victim to the system? Felt humiliated and helpless? Have you fought back? Meet four such patriots: Varun, an NRI software engineer; Salman, CEO of Coffee Moments; Raghav, a virtuous politician; and Aditya, an altruistic businessman. Fate brings these four lives together at a crossroads, pushing these unlikely heroes out of their comfort zones to fight a seemingly unstoppable evil force which wants to hold our country captive. The four companions, who have always had each other's back, will now come face-to-face with the biggest challenge of their lives—a labyrinthine plot rife with perilous twists and wicked turns. With the nation's future at stake, will they be able to destroy the Chakravarty intricately laid down by the enemies of India? Will they come out of it alive? A story about friendship, faith and courage, replete with romance and patriotism, The Four Patriots is a racy, contemporary thriller sure to give you goosebumps. Pick this book if you do not believe 'is desh ka kuch nahin ho sakta'; and if you think all is not lost, this is a must-read!

41 Years (1978-2018) JEE Advanced (IIT-JEE) + 17 yrs JEE Main Topic-wise Solved Paper Physics 14th Edition

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40 Years IIT-JEE Advanced + 16 yrs JEE Main Topic-wise Solved Paper Mathematics with Free ebook 13th Edition

Problems In General Physics

NUMERICAL CHEMISTRY is the first book towards providing a step by step approach towards Problem solving in Chemistry. The book is enriched with the introduction of a large number of Illustrative Examples in each chapter in the Discussion format, which will help the students master the right approach to solve a problem. Each chapter is empowered with : Smart way to Review Concepts; Problem Solving Tips; Step by Step Learning Examples; Check your Concepts; Performance Booster Examples and 2 levels of exercises including new pattern questions. This book is a must for IIT-JEE and other Engineering Entrance Examinations.

This title contains an Access Code along with instructions to access the Online Material. In case you face any difficulty, write to us at ebooks.support@alets.co.in. • The book “40 Years IIT-JEE Advanced + 16 yrs JEE Main/ AIEEE Topic-wise Solved Paper MATHEMATICS with Free ebook” is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-17 JEE Advanced) questions from 1978 to 2017 and past JEE Main (including 2002-2012 AIEEE & 2013-17 JEE Main) questions from 2002 to 2017. • The new edition has been designed in 2-colour layout and comes with a Free ebook which gives you the power of accessing your book anywhere - anytime through web and tablets. • The book is divided into 22 chapters. The flow of chapters has been aligned as per the NCERT books. • Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3500+ MILESTONE PROBLEMS IN Mathematics. How does the FREE ebook help? • Provides the Digital version of the book which can be accessed through tablets and web in both online and offline mediums. • Also provides the AIEEE Rescheduled 2011 paper and 1997 IIT-JEE cancelled paper. • Alternate Solutions to a number of Questions. • Quick Revision Material.

A Clear And Reliable Guide To Students Of Practical Organic Chemistry At The Undergraduate And Postgraduate Levels. This Edition 5 Special Emphasis Is On Semi Micro Methods And Modern Techniques And Reactions.

The book intended exclusively for the usage of students, teachers and persons who are related to competitive exams. The book is based on our experience over the past 8 years and design on the basis of current competitive level of Engineering like IIT JEE mains/ Advanced, MHT-CET, BITSAT + NTSE, KVPY, Olympiad, IIT Foundation + CAT and other state engineering exams in India, where 1194938 i.e. around 12 Lakh of students (Year 2016) write a single engineering exam. As an educator, I understand the student's need of these topics and the difficulties faces by students in transition from standard 10th to 11th class. As students enter their 11th standard, they find a substantial change in the course content and level of difficulty. They find some totally new concepts of Mathematics, widely used in Physics and Chemistry. They may be completely unfamiliar with concepts of absolute value, Interval Methods, Set Notation, inequalities etc. The book has been prepared for them to learn the concepts of algebra from basic to advanced level of thinking. The book is prepared to serve as a bridge for 10th to 11th standards, CAT aspirants etc. Software engineers can also be in benefit in writing the code due to concepts clarity. The book contains the following Learning Methodology. (i) Basic concepts and easy learning. (ii) Necessary examples and experiments for beginners level to expert. (iii) Psychology of student's brain and their thinking. (iv) Pictorial view of problems and solutions. (v) Challenging problems (Ultimate Finish - for Top All India Rankers between 1 - 500). (vi) Exercises and Assignments to test the understanding and growing knowledge. (vii) Sample Test Paper to have experience before actual exam. (viii) Puzzles and interactive learning to keep interest. (ix) How to make notes to up-to-date and add your thinking inside the book. (x) Archive of IIT-JEE Mains/Advanced. (xi) All types of questions (Single and Multi-correct, Integer Type, Comprehension, Assertion-reason, Matrix-Match) i.e Subjective and Objective both. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

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The beginner's choice for engineering exams preparation. ok for JEE Mains/Advanced, NTSE, KVPY, Olympiad, IIT Foundation + CAT

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Hydrocarbons & Halogen Derivatives for JEE Main & JEE Advanced (Study Package for Chemistry)

Natural Products

For Medical, Engineering and Other Competitive Exams

The Four Patriots

Essentials of Organic Chemistry is an accessible introduction to the subject for students of Pharmacy, Medicinal Chemistry and Biological Chemistry. Designed to provide a thorough grounding in fundamental chemical principles, the book focuses on key elements of organic chemistry and carefully chosen material is illustrated with the extensive use of pharmaceutical and biochemical examples. In order to establish links and similarities the book places prominence on principles and deductive reasoning with cross-referencing. This informal text also places the main emphasis on understanding and predicting reactivity rather than synthetic methodology as well as utilising a mechanism based layout and featuring annotated schemes to reduce the need for textual explanations. * tailored specifically to the needs of students of Pharmacy/Medical Chemistry and Biological Chemistry * numerous pharmaceutical and biochemical examples * mechanism based layout * focus on principles and deductive reasoning This will be an invaluable reference for students of Pharmacy/Medical and Biological Chemistry.

The ebook * Quick revision Chapterwise mind- maps * Class-12 Biology covers 16 chapters of NCERT This ebook is unique and the mind maps are designed in the most comprehensive manner. Mind maps are extremely helpful in faster recall and quick revision Asset for students to excel in CBSE board exam as well as Competitive exams like NTA NEET etc.

• The book * 41 Years IIT-JEE Advanced + 17 yrs JEE Main/ AIEEE Topic-wise Solved Paper CHEMISTRY * is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-18 JEE Advanced) questions from 1978 to 2018 and past JEE Main (including 2002-2012 AIEEE & 2013-18 JEE Main) questions from 2002 to 2018. • The book is divided into 23 chapters. The flow of chapters has been aligned as per the NCERT books. • Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3230+ MILESTONE PROBLEMS IN CHEMISTRY.

The steric and stereoelectronic effects control the rate and stereochemical outcome of reactions. Hence, a decent understanding of the related concepts is essential for successful synthetic planning. The book attempts to address several important issues related to these concepts in a simplified manner, and is intended for graduate students. It lays stress on the important aspects of steric and stereoelectronic effects and their control on the conformational profile and reactivity features. The book covers the geometrical requirements for reactions at saturated and unsaturated carbons in both cyclic and acyclic systems, and the resultant stereochemical features. The aspect of geometrical flexibility is also covered with a few examples involving intramolecular reactions. It deals with the facial selectivity of nucleophilic additions to acyclic and cyclic carbonyl compounds, and explains how the steric and stereoelectronic effects control the same. The work comments on allylic strains and their stereochemical control on different reactions with the related conformational control. It is a must read to understand the control elements, the prominent among these elements are spiro-conjugation, periselectivity, torquoselectivity, a-effect, Hammett ' s substituent constants, Hammond postulate, and Curtin-Hammett principle.

This book is aimed to provide short tricks and keys to be useful for medical and engineering entrance exams. All possible efforts have been made to overcome the difficulties that student generally face during exams to solve chemistry questions. This book also contains many keys to remember concepts easily. It is very useful for students who are preparing for competitive exams like NEET/JEE/AIIMS.

Modern Approach To Chemical Calculations. An Introduction To The Mole Concept

Amines & Biomolecules for JEE Main & JEE Advanced (Study Package for Chemistry)

For Students of Pharmacy, Medicinal Chemistry and Biological Chemistry

Quick Revision Chapters with Mind-Maps class 12 Biology

Iit-Jee Chemistry Challenger

Inorganic Chemistry

March's Advanced Organic Chemistry

Numerical Chemistry

Short Tricks and Tips in Chemistry

*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.*

Doing Math with Python shows you how to use Python to delve into high school-level math topics like statistics, geometry, probability, and calculus. You'll start with simple projects, like a factoring program and a quadratic-equation solver, and then create more complex projects once you've gotten the hang of things. Along the way, you'll discover new ways to explore math and gain valuable programming skills that you'll use throughout your study of math and computer science. Learn how to: -Describe your data with statistics, and visualize it with line graphs, bar charts, and scatter plots -Explore set theory and probability with programs for coin flips, dicing, and other games of chance -Solve algebra problems using Python's symbolic math functions -Draw geometric shapes and explore fractals like the Barnsley fern, the Sierpinski triangle, and the Mandelbrot set -Write programs to find derivatives and integrate functions Creative coding challenges and applied examples help you see how you can put your new math and coding skills into practice. You'll write an inequality solver, plot gravity's effect on how far a bullet will travel, shuffle a deck of cards, estimate the area of a circle by throwing 100,000 "darts" at a board, explore the relationship between the Fibonacci sequence and the golden ratio, and more. Whether you're interested in math but have yet to dip into programming or you're a teacher looking to bring programming into the classroom, you'll find that Python makes programming easy and practical. Let Python handle the grunt work while you focus on the math.

*Inorganic Chemistry provides vivid, clarifying information in this dynamic and fascinating area of chemistry. Presenting the subject in an easy-to-understand manner, the text provides comprehensive in-depth coverage along with tools for enhanced learning, thereby helping students appreciate and understand the fundamentals clearly. Salient Features : *Emphasis given to the theoretical aspects of the subject *Excellent coverage on Coordination Chemistry and Organometallics *Application and case studies provided throughout for better comprehension*

Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules, inversion vibration of ammonia molecule, fibre-coupled Raman spectrometer, Raman microscope, supersonic beams and jet-cooling have also been included. Besides worked-out examples, an abundance of review questions, and end-of-chapter problems with answers are included to aid students in testing their knowledge of the material contained in each chapter. Solutions manual containing the complete worked-out solutions to chapter-end problems is available for instructors.

• The book *41 Years IIT-JEE Advanced + 17 yrs JEE Main/ AIEEE Topic-wise Solved Paper PHYSICS* is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-18 JEE Advanced) questions from 1978 to 2018 and past JEE Main (including 2002-2012 AIEEE & 2013-18 JEE Main) questions from 2002 to 2018. • The book is divided into 17 chapters. The flow of chapters has been aligned as per the NCERT books. • Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/ False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/ school/ home. The book contains around 3280+ MILESTONE PROBLEMS IN Physics.

General Organic Chemistry for JEE Main & JEE Advanced

A Collection of Questions and Problems in Physics

Biomass Valorization to Biorenergy

Composite Mathematics For Class 8

Reactions, Mechanisms, and Structure

The Pearson Guide To Inorganic Chemistry For The Iit Jee

Mathematics the First Step

41 Years (1978-2018) JEE Advanced (IIT-JEE) + 17 yrs JEE Main Topic-wise Solved Paper Chemistry 14th Edition

MOLECULAR STRUCTURE AND SPECTROSCOPY

This book covers topics related to bioenergy production from various biomass sources, including agricultural residues and waste biomass from both domestic and industrial use. It includes useful data, illustrations, and case studies of bioenergy production facilities. The contents of this book will be of interest to readers looking to scale up production and evaluate the selection and optimization of resources in order to overcome the current limitations of biomass to bioenergy conversions. The book will be of interest to researchers and industry professionals alike.

• The book “42 Years IIT-JEE Advanced + 18 yrs JEE Main Topic-wise Solved Paper CHEMISTRY” is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-19 JEE Advanced) questions from 1978 to 2019 and past JEE Main (including 2002-2012 AIEEE & 2013-19 JEE Main) questions from 2002 to 2019. • The book provides 2 Sets of JEE Main 2019 (1 of each of the 2 Phases) & Paper 1 & 2 of JEE Advanced 2019. • The book is divided into 23 chapters. The flow of chapters has been aligned as per the NCERT books. • Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3380+ MILESTONE PROBLEMS IN Mathematics.

GEORGE CHRISTOU Indiana University, Bloomington I am no doubt representative of a large number of current inorganic chemists in having obtained my undergraduate and postgraduate degrees in the 1970s. It was during this period that I began my continuing love affair with this subject, and the fact that it happened while I was a student in an organic laboratory is beside the point. I was always enchanted by the more physical aspects of inorganic chemistry, while being captivated from an early stage by the synthetic side, and the measure of creation with a small c that it entails, I nevertheless found the application of various theoretical, spectroscopic and physicochemical techniques to inorganic compounds to be fascinating, stimulating, educational and downright exciting. The various bonding theories, for example, and their use to explain or interpret spectroscopic observations were more or less universally accepted as belonging within the realm of inorganic chemistry, and textbooks of the day had whole sections on bonding theories, magnetism, kinetics, electron-transfer mechanisms and so on. However, things changed, and subsequent inorganic chemistry teaching texts tended to emphasize the more synthetic and descriptive side of the field. There are a number of reasons for this, and they no doubt include the rise of diamagnetic organometallic chemistry as the dominant subdiscipline within inorganic chemistry and its relative narrowness vis-d-vis physical methods required for its prosecution.

Plane Trigonometry

The Elements of Coordinate Geometry

Essentials of Organic Chemistry

40 Years IIT-JEE Advanced + 16 yrs JEE Main Topic-wise Solved Paper Chemistry with Free ebook 13th Edition

Steric and Stereoelectronic Effects in Organic Chemistry

Essential Physical Chemistry

Complete Mathematics

A Coordination Chemistry Approach

Doing Math with Python