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KEY=ADVANCED - TESSA CHASE

PROBLEMS IN ORGANIC CHEMISTRY FOR JEE (MAIN & ADVANCED)

Career Point Publication Problems in Organic Chemistry for JEE (Main & Advanced) Volume-3 by Career Point is a collection of conceptual questions along with detailed solutions. These questions are thought-provoking and cover the application of various concepts in solving problems. Questions in this book are handpicked by experienced faculty members of Career Point to enhance the following skills of the students- 1. Understanding of concepts and their application to the grass-root level. 2. Improving their scoring ability & accuracy by providing an opportunity to practice a variety of questions. The book approaches the subject in a very conceptual and coherent manner. Chapter-wise varieties of questions are arranged in a sequential manner to build a strong foundation of fundamentals. The coverage and features of books make it highly useful for all those preparing for JEE (Main & Advanced) and aspiring to become IITians or NITians. The book is also useful for students who are preparing for KVPY and Olympiads. The book is also useful for students who are preparing for KVPY and Olympiads. This volume consists of chapter wise challenging questions with detailed explanatory solutions from the following chapters for JEE- 1. Classification & Nomenclature 2. Isomerism 3. General Organic Chemistry 4. Hydrocarbons 5. Aromatic Chemistry 6. Halogen Derivatives 7. Alcohol, Ether & Phenol 8. Carbonyl Compounds 9. Carboxylic Acid & Its Derivatives 10. Nitrogen Compounds, Amines 11. Carbohydrates, Amino Acid, Protein & Polymers

REACTIONS REARRANGEMENTS AND REAGENTS

ORGANIC CHEMISTRY

Wiley On the cover of this book is a Pacific yew tree, found in the ancient forests of the Pacific Northwest. The bark of the Pacific yew tree produces Taxol, found to be a highly effective drug against ovarian and breast cancer. Taxol blocks mitosis during eukaryotic cell division. The supply of Taxol from the Pacific yew tree is vanishingly small, however. A single 100-year-old tree provides only about one dose of the drug (roughly 300 mg). For this reason, as well as the spectacular molecular architecture of Taxol, synthetic organic chemists fiercely undertook efforts to synthesize it. Five total syntheses of Taxol have thus far been reported. Now, a combination of isolation of a related metabolite from European yew needles, and synthesis of Taxol from that intermediate, supply the clinical demand. This case clearly demonstrates the importance of synthesis and the use of organic chemistry. It's just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry!

THE GENETICS MANIPULATION IN PLANTS

1. Molecular Biology of Recombination 2. Plant Gene Expression Regulation 3. Physical Methods for Plant Cell Transformation 4. Molecular Plant Pathology 5. Tolerance of Transgenic Plants against Microbial Pathogens 6. Resistance and Tolerance Against Viral Pathogens 7. Gene Alterations or Tomatoes 8. Vaccine Biotechnology 9. Yeast Genetics 10. Herbicide Resistant Transgenic Crops 11. Transgenic Plants with Greater Tolerance 12. Transgenic Plants & Immunotherapeutic Agents 13. Transgenic Plants & Oxidative Stress 14. Transgenic Plants as Sources of Modified Oils 15. Transgenic Plants & Modified Carbohydrates 16. Genes and Development 17. Genetic Improvements of Plants.

CONCEPTUAL PROBLEMS IN ORGANIC CHEMISTRY (VOLUME I)

Pearson Education India

NTA JEE MAIN 101 SPEED TESTS (87 CHAPTER-WISE + 12 SUBJECT-WISE + 2 FULL)

Disha Publications The Smart & Innovative Book from Disha 'NTA JEE Main 101 Speed Tests' contains: 1. 87 Chapter-wise + 12 Subject-wise + 2 Full Syllabus Tests based on the NCERT & JEE Main Syllabus. 2. Carefully selected Questions (30 per Chapter /Subject & 90 per Full Test) that helps you assess & master the complete syllabus for JEE Main. 2. The book is divided into 3 parts: (a) 87 Chapter-wise Tests (29 in Physics, 30 in Chemistry & 28 in Mathematics); (b) 12 Subject-wise (4 each in Physics, Chemistry & Mathematics); (c) 2 Full Test of PCM. 3. Time Limit, Maximum Marks, Cutoff, Qualifying Score for each Test is provided. 4. These Tests will act as an Ultimate tool for Concept Checking & Speed Building. 5. Collection of 3210 MCQ's of all variety as per latest pattern & syllabus of NEET exam. This book, if completed with FULL HONESTY, will help you improve your score by 15-20%. A Must Have Book in the last 3-4 months of the exam and can be completed in 105 Hrs.

HOW LIVES CHANGE

PALANPUR, INDIA, AND DEVELOPMENT ECONOMICS

Oxford University Press Development economics is about understanding how and why lives change. *How Lives Change: Palanpur, India, and Development Economics* studies a single village in a crucially important country to illuminate the drivers of these changes, why some people do better or worse than others, and what influences mobility and inequality. *How Lives Change* draws on seven decades of detailed data collection by a team of dedicated development economists to describe the evolution of Palanpur's economy, its society, and its politics. The emerging story of integration of the village economy with the outside world is placed against the backdrop of a rapidly transforming India and, in turn, helps to understand the transformation. It puts development economics into practice to assess its performance and potential in a unique and powerful way to show how the development of one village since India's independence can be set in the context of the entire country's story. *How Lives Change* sets out the role of, and scope for, public policy in shaping the lives of individuals. It describes how changes in Palanpur's economy since the late 1950s were initially driven by the advance of agriculture through land reforms, the expansion of irrigation and the introduction of "green revolution" technologies. Since the mid-1980s, newly emerging off-farm opportunities in nearby towns and outside agriculture became the key driver of growth and change, profoundly influencing poverty, income mobility, and inequality in Palanpur. Village institutions are shown to have evolved in subtle but clear ways over time, both shaping and being shaped by economic change. Individual entrepreneurship and initiative is found to play a critical role in driving and responding to the forces of change; and yet, against a backdrop of real economic growth and structural transformation, this book shows that human development outcomes have shown only weak progress and remain stubbornly resistant to change.

CAPTURING INSTITUTIONAL CHANGE

THE CASE OF THE RIGHT TO INFORMATION ACT IN INDIA

Oxford University Press Institutions are norms that undergird organizations and are reflected in laws and practices. Over time, institutions take root and persist as they are path dependent and thus change resistant. Therefore, it is puzzling when institutions change. One such puzzle has been the enactment of the Right to Information (RTI) Act in India in 2005, which brought about institutional change by transforming the 'information regime'. Why did the government upend the norm of secrecy, which had historically been entrenched within the Indian State? This book uses archival material, internal government documents, and interviews to understand the why and how of institutional change. It demonstrates that the institutional change resulted from 'ideas' emerging gradually and incrementally, leading to a 'tipping point'. About the IDSA Series: This series interrogates the interplay between globalization, the state, and social forces in the making and un-making of institutions in South Asia. Why do institutions persist and change? Do we need to transcend materialism and dwell in ideas and culture as well to understand why institutions perform and fail? The first book in the Institutions and Development in South Asia series, this volume studies the historical institutionalism in the information regime in India by presenting an alternative narrative about the evolution of the RTI Act.

CONCISE INORGANIC CHEMISTRY

ADVANCED PROBLEMS IN PHYSICAL CHEMISTRY FOR COMPETITIVE EXAMINATION

Pearson Education India Advanced Problems in Physical Chemistry has been conceived to meet the specific requirements of the students preparing for IIT-JEE, Olympiad and other competitive examinations. This book provides a comprehensive and systematic coverage of problems in physical chemistry and enables quick applications of concepts through numerous problems provided in each chapter. The problems are graded as per JEE Main and Advanced respectively. The best way to ensure that students understand the concepts of physical chemistry is to solve as many problems on each topic. This book is a must-have resource for candidates preparing for JEE Main and Advanced exams.

ORGANIC-INORGANIC COMPOSITE POLYMER ELECTROLYTE MEMBRANES

PREPARATION, PROPERTIES, AND FUEL CELL APPLICATIONS

Springer This volume explores the latest developments in the area of polymer electrolyte membranes (PEMs) used for high-temperature fuel cells. Featuring contributions from an international array of researchers, it presents a unified viewpoint on the operating principles of fuel cells, various methodologies used for the fabrication of PEMs, and issues related to the chemical and mechanical stabilities of the membranes. Special attention is given to the fabrication of electrospun nanocomposite membranes. The editors have consciously placed an emphasis on developments in the area of fast-growing and promising PEM materials obtained via hygroscopic inorganic fillers, solid proton conductors, heterocyclic solvents, ionic liquids, anhydrous H₃PO₄ blends, and heteropolyacids. This book is intended for fuel cell researchers and students who are interested in a deeper understanding of the organic-inorganic membranes used in fuel cells, membrane fabrication methodologies, properties and clean energy applications.

ORGANIC CHEMISTRY

PROBLEMS AND SOLUTIONS

New Age International This Book Discusses In Details, Solutions To Problems On Almost All The Topics In Organic Chemistry, Taught Up To The Undergraduate Level. The Book Has Been Thoroughly Revised. A Large Number Of New Problems Have Been Included In All The Chapters. The Objective Of This Book Is To Make To The Students Ready Material Available For Self-Study. The Focus Is On The Process Of Learning. The Solution To Each Problem Has Been Explicitly Worked Out. Students Will Find Definitions Of Important Terms And Related Problems On Synthesis And Reaction Mechanism. Multiple Choice Questions And Problems On Lettered Compounds Have Been Added In Every Chapter. It Is An Indispensable Book For Students Up To The Graduate Level And For Those Intending To Appear

For I.I.T., A.I.E.E.E. And Other Engineering And Medical Entrance Examinations.

PUSHING ELECTRONS

Cengage Learning This brief guidebook assists you in mastering the difficult concept of pushing electrons that is vital to your success in Organic Chemistry. With an investment of only 12 to 16 hours of self-study you can have a better understanding of how to write resonance structures and will become comfortable with bond-making and bond-breaking steps in organic mechanisms. A paper-on-pencil approach uses active involvement and repetition to teach you to properly push electrons to generate resonance structures and write organic mechanisms with a minimum of memorization. Compatible with any organic chemistry textbook. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

WORKING CAPITAL MANAGEMENT & FINANCE

A HAND BOOK FOR BANKERS AND FINANCE MANAGERS

Notion Press The overwhelming support from readers, this is the 3rd edition of the book which has been updated to 31.05.2019. Various banking authorities on credit, Entrepreneurs, Education Institutions have appreciated the language and contents of working capital in simple language covering various problems being faced by the officers joining the banks for the last two decade. This book is very convenient and understandable logically with all the ins & outs of the working capital management and its finance. It will prove to be a bible for all the officers who are working in the banks including the students of MBA (Finance) & entrepreneurs but have no background of financial terminology and its technical aspects with logical understanding.

14 YEARS SOLVED PAPERS NEET 2022

Arihant Publications India limited 1. 14 Years' Solved Papers is collection of previous years solved papers of NEET 2. This book covers all CBSE AIPMT and NTA NEET papers 3. Chapterwise and Unitwise approach to analysis questions 4. Each question is well detailed answered to understand the concept as whole 5. Online access to CBSE AIPMT SOLVED PAPER (Screening + Mains) 2008 When preparing for an examination like NEET, the pattern and the question asked in the examination are always intriguing for aspirants. This is where Solved Papers play their major role in helping students to cope up with the attempting criteria of the exam. Presenting the "14 Years' Solved Papers [2021 - 2008]" that has been designed with a structured approach as per the latest NEET Syllabus requirement. As the title of the book suggests, it contains ample previous year's papers, which help to identify and self-analyze the preparation level for the exam. Enriched with problem solving tools, this book serves a one stop solution for all 3 subjects; Physics, Chemistry and Biology. Well detailed answers are given for all questions that provide deep conceptual understanding of the problems. This book can be treated as a sufficient tool for learning, active answering style and time management skills. TOC NEET Solved Paper 2021, NEET Solved Paper 2020 (Oct.), NEET Solved Paper 2020 (Sep.), NEET National Paper 2019, NEET Odisha Paper 2021, NEET Solved Paper 2018, NEET Solved Paper 2017, NEET Solved Paper 2016(Phase II), NEET Solved Paper 2016 (Phase - I), CBSE AIPMT 2015 (Cancelled - May), CBSE AIPMT 2015 (Latest - May), CBSE AIPMT 2015 (Latest - July), CBSE AIPMT Solved Paper 2014, NEET Solved Paper 2013, CBSE AIPMT 2012 (Screening + Mains), CBSE AIPMT 2011 (Screening + Mains), CBSE AIPMT 2010 (Screening + Mains).

ATKINS' PHYSICAL CHEMISTRY 11E

VOLUME 3: MOLECULAR THERMODYNAMICS AND KINETICS

Oxford University Press, USA Atkins' Physical Chemistry: Molecular Thermodynamics and Kinetics is designed for use on the second semester of a quantum-first physical chemistry course. Based on the hugely popular Atkins' Physical Chemistry, this volume approaches molecular thermodynamics with the assumption that students will have studied quantum mechanics in their first semester. The exceptional quality of previous editions has been built upon to make this new edition of Atkins' Physical Chemistry even more closely suited to the needs of both lecturers and students. Re-organised into discrete 'topics', the text is more flexible to teach from and more readable for students. Now in its eleventh edition, the text has been enhanced with additional learning features and maths support to demonstrate the absolute centrality of mathematics to physical chemistry. Increasing the digestibility of the text in this new approach, the reader is brought to a question, then the math is used to show how it can be answered and progress made. The expanded and redistributed maths support also includes new 'Chemist's toolkits' which provide students with succinct reminders of mathematical concepts and techniques right where they need them. Checklists of key concepts at the end of each topic add to the extensive learning support provided throughout the book, to reinforce the main take-home messages in each section. The coupling of the broad coverage of the subject with a structure and use of pedagogy that is even more innovative will ensure Atkins' Physical Chemistry remains the textbook of choice for studying physical chemistry.

40 DAYS CRASH COURSE FOR JEE MAIN CHEMISTRY

Arihant Publications India limited 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.

NUMERICAL CHEMISTRY

CHARACTERIZATION AND TREATMENT OF TEXTILE WASTEWATER

Elsevier *Characterization and Treatment of Textile Wastewater* covers fundamental knowledge of characterization of textile wastewater and adsorbents; naturally prepared adsorption and coagulation process for removal of COD, BOD and color. This book is intended for everyone actively working on the environment, especially for researchers in textile wastewater, as the problem of disposal of textile influent is worldwide. Potential technical environmental persons like engineers, project managers, consultants, and water analysts will find this book immediately useful for fine-tuning performance and reliability. This book will also be of interest to individuals who want effective knowledge of wastewater, adsorption and coagulation. Includes definitions of pollutions, sources of wastewater in textile wastewater, various treatment methods, remedial measures and effect of waste. Examines research carried out and in progress worldwide by different researchers. Covers sampling procedures and determination of various parameters of textile wastewater.

ADVANCED PRACTICAL CHEMISTRY

COMPUTATIONAL INTELLIGENCE AND HEALTHCARE INFORMATICS

John Wiley & Sons AI techniques are being successfully used in the fields of health to increase the efficacy of therapies and avoid the risks of false diagnosis, therapeutic decision-making, and outcome prediction in many clinical cases, thanks to the rapid advancement of technology. The acquisition, analysis, and application of a vast amount of information required to solve complex problems is a challenge for modern health therapies. The 21 chapters in this integrate several aspects of computational intelligence like machine learning and deep learning from diversified perspectives. The purpose of the book is to endow to different communities with their innovative advances in theory, analytical approaches, numerical simulation, statistical analysis, modeling, advanced deployment, case studies, analytical results, computational structuring and significance progress in healthcare applications.

THE CHANGING VILLAGE IN INDIA

INSIGHTS FROM LONGITUDINAL RESEARCH

Oxford University Press, USA Longitudinal studies that have followed the same village or set of villages over time have a special place in the literature on economic and social transformation in rural areas. By bringing together different contributions from the tradition of such studies in India, this book aims to illustrate the range of analytical and policy issues that can be addressed, highlight the problems and potentials of the longitudinal method, and encourage more work in the same tradition.

PROBLEMS IN INORGANIC CHEMISTRY FOR NEET/AIIMS

CHAPTER-WISE DPP SHEETS FOR CHEMISTRY NEET

Disha Publications The book "Chapter-wise Daily Practice Problem (DPP) Sheets for Chemistry NEET" contains: 1. Carefully selected Questions (45 per DPP) in Chapter-wise DPP Sheets for Practice. 2. The book is divided into 30 Chapter-wise DPPs based on the NCERT. 3. Time Limit, Maximum Marks, Cutoff, Qualifying Score for each DPP Sheet is provided. 4. These sheets will act as an Ultimate tool for Concept Checking & Speed Building. 5. Collection of 1395 MCQ's of all variety of new pattern. 6. Covers all important Concepts of each Chapter. 7. As per latest pattern & syllabus of JEE Main exam.

OBJECTIVE CHEMISTRY

The Book Thoroughly The Following: Physical Chemistry With Detailed Concepts And Numerical Problems. Organic Chemistry With More Chemical Equations. Inorganic Chemistry With Theory And Examples. In Addition To A Well Explained Theory The Book Includes Well Categorized Classified And Sub-Classified Questions On The Basis Of Latest Trends Of Examination Papers. Salient Features As Per The Syllabus Of Engineering And Medical Entrance Examinations Previous Years Solved Papers Every Unit Contains (I) Main Highlights; (ii) Multiple Choice Questions; (iii) True And False Statements; (iv) Hints And Solutions.

PROBLEMS IN GENERAL PHYSICS

SOLVED PAPERS

YOUTH COMPETITION TIMES 2021-22 Airports Authority of India Junior Executive SOLVED PAPERS

PALLADACYCLES

CATALYSIS AND BEYOND

Elsevier Palladacycles: Catalysis and Beyond provides an overview of recent research in palladacycles in catalysis for cross-coupling and similar reactions. In the quest for developing highly efficient and robust palladium-based catalysts for C-C bond formation via cross-coupling reactions, palladacycles have played a significant role. In recent years, they have found a wide variety of applications, ranging from catalysts for cross-coupling and related reactions, to their more recent application as anticancer agents. This book explores early examples of the use of palladacyclic complexes in catalysis employing azobenzene and hydrazobenzene as coordinating ligands. Its applications in processes such as selective reduction of alkenes, alkynes, or nitroalkanes are also covered. Palladacycles: Catalysis and Beyond reveals the tremendous advances that have taken place in the potential applications of palladacycles as versatile catalysts in academia and industry. It is a valuable resource for synthetic chemists, organometallic chemists, and chemical biologists. Reviews the importance and various applications of palladacycles in academic research and industry, including industrial scale applications. Includes the impact of palladacycles on coupling reactions and potential applications as anticancer agents. Features coverage of nano and colloidal catalysis via palladacyclic degradation.

OBJECTIVE NCERT XTRACT CHEMISTRY FOR NEET/ JEE MAIN, CLASS 11/ 12, AIIMS, BITSAT, JIPMER, JEE ADVANCED 4TH EDITION

Disha Publications The 4th Edition of the book Objective NCERT Xtract -Chemistry for NEET/ JEE Main, Class 11 & 12, AIIMS, BITSAT consists of Quality Selected MCQs as per current NCERT syllabus covering the entire syllabus of 11th and 12th standard. The most highlighting feature of the book is the inclusion of a lot of new questions created exactly on the pattern of NCERT. • This book-cum-Question Bank spans through 30 chapters. • The book provides a detailed 2 page Concept Map for Quick Revision of the chapter. • This is followed by 3 types of objective exercises: 1. Topic-wise Concept Based MCQs 2. NCERT Exemplar & Past JEE Main, BITSAT, NEET & AIIMS Questions 3. 15-20 Challenging Questions in Try If You Can Exercise • Detailed explanations have been provided for all typical MCQs that need conceptual clarity. • The book also includes 5 Mock Tests for Self Assessment. This book assures complete syllabus coverage by means of questions for more or less all significant concepts of Chemistry. In nutshell this book will act as the BEST PRACTICE & REVISION MATERIAL for all PMT/ PET entrance exams.

TEXTBOOK OF ORGANIC MEDICINAL AND PHARMACEUTICAL CHEMISTRY

Lippincott Williams & Wilkins

SKILLS IN MATHEMATICS TRIGONOMETRY - 16-X

SKILL IN MATHEMATICS - ALGEBRA FOR JEE MAIN AND ADVANCED

Arihant Publications India limited 1. 'Skill in Mathematics' series is prepared for JEE Main and Advanced papers 2. It is a highly recommended textbook to develop a strong grounding in Algebra 3. The book covers the entire syllabus into 11 chapters 4. Each chapter includes a wide range of questions that are asked in the examinations Good foundational grip is required in the Algebraic Methods, while you are preparing for JEE Mains & Advanced or any other engineering. Bringing up the series "Skills in Mathematics for JEE Main & Advanced for Algebra" that is carefully revised with the sessionwise theory and exercise; to help candidates to learn & tackle the mathematical problems. The book has 11 Chapters covering the whole syllabus for the JEE Mains and Advanced as prescribed. Each chapter is divided into sessions giving complete clarity to concepts. Apart from sessionwise theory, JEE Type examples and Chapter Exercise contain a huge amount of questions that are provided in every chapter under Practice Part. Prepared under great expertise, it is a highly recommended textbook to develop a strong grounding in Algebra to perform best in JEE and various engineering entrances. TOC: Complex Numbers, Theory of Equations, Sequences and Series, Logarithms and Their Properties, Permutations and Combinations, Binomial Theorems, Determinants, Matrices, Probability, Mathematical Inductions, Sets, Relations and Functions.

MICROBIOLOGY

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

ORGANIC SPECTROSCOPY

Springer Science & Business Media Organic Spectroscopy presents the derivation of structural information from UV, IR, Raman, ¹H NMR, ¹³C NMR, Mass and ESR spectral data in such a way that stimulates interest of students and researchers alike. The application of spectroscopy for structure determination and analysis has seen phenomenal growth and is now an integral part of Organic Chemistry courses. This book provides: -A logical, comprehensive, lucid and accurate presentation, thus making it easy to understand

even through self-study; -Theoretical aspects of spectral techniques necessary for the interpretation of spectra; -Salient features of instrumentation involved in spectroscopic methods; -Useful spectral data in the form of tables, charts and figures; -Examples of spectra to familiarize the reader; -Many varied problems to help build competence and confidence; -A separate chapter on 'spectroscopic solutions of structural problems' to emphasize the utility of spectroscopy. Organic Spectroscopy is an invaluable reference for the interpretation of various spectra. It can be used as a basic text for undergraduate and postgraduate students of spectroscopy as well as a practical resource by research chemists. The book will be of interest to chemists and analysts in academia and industry, especially those engaged in the synthesis and analysis of organic compounds including drugs, drug intermediates, agrochemicals, polymers and dyes.

ORGANIC CHEMISTRY

MODERN PHYSICS FOR JEE MAIN & ADVANCED (STUDY PACKAGE FOR PHYSICS)

18 YEARS CHAPTERWISE SOLUTIONS MATHEMATICS JEE MAIN 2021

Arihant Publications India limited 1. Chapterwise Solution Mathematics has been designed for the preparation of JEE Main Exam 2. The book is divided into 21 chapters 3. It provides detailed solutions of all chapters [2002 -2018] 4. 3 practice sets and 3 Free Online Practices Sets for practice 5. Solved paper for previous Years' Questions [2015 - 2018] JEE Entrance is the gateway to some of the prestigious engineering technology institutions and every year nearly 10 Lakhs 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. To make students well versed with pattern as well as the level of the questions asked in the exam, this book contains Chapterwise Solutions of the questions asked in Last 19 Years' Examinations of JEE Main Chapterwise. Solutions to all the questions have been kept very detailed and accurate for the better understanding. Along with the indication of level exam, this book also teaches you how to solve the question objectively in the examination. In order to give the student a complete practice, along with Chapterwise solutions it contains 3 Practice Sets aligned exactly on JEE Main Syllabus and pattern. TABLE OF CONTENT JEE MAIN ONLINE PAPER 2020 (Jan & Sept Attempt), Sets, Relations and Functions, Complex Numbers and Quadratic Equations, Matrices and Determinants, Permutations and Combinations, Mathematical Induction, Binomial Theorem and Its Simple Applications, Sequences and Series, Limits and Continuity and Differentiability, Integral Calculus, Differential Equations, Coordinate Geometry, Three Dimensional Geometry, Vector Algebra, Statistics and Probability, Trigonometry, Mathematical Reasoning, Practice Sets for JEE MAIN: Practice Sets (1-3).

SUSTAINABLE SOIL FERTILITY MANAGEMENT

Nova Science Publishers "Sustainable Soil Fertility Management mainly focuses on issues related to soil management at the field level, which is a prime concern for crop production that may be improved by adopting several sustainable management practices. Soil fertility is the capability of soil to sustain plant growth and optimize crop yield. This can be enhanced through the use of organic and inorganic fertilizers. Several techniques are suggested that enhance soil fertility and crop production while minimizing environmental impact. Soil fertility can be further improved by incorporating cover crops that add organic matter to the soil, which leads to improved soil structure and promotes a healthy, fertile soil; by using green manure or growing legumes to fix nitrogen from the air through the process of biological nitrogen fixation; and by microbes. Fertile soil contains all the major nutrients necessary to sustain basic plant nutrition (e.g., nitrogen, phosphorus, and potassium), as well as other nutrients needed in smaller quantities (e.g., calcium, magnesium, sulfur, iron, zinc, copper, manganese, boron, molybdenum, nickel). The book focuses on global strategies with a possible solution for managing the fertility of soil. The book covers soil science, soil fertility, crop production, soil sustainability, and soil management with a modern scientific approach that is helpful for researchers, the scientific community, academicians, business farmers and policymakers"--

ADVANCED PROBLEMS IN ORGANIC CHEMISTRY, 2/E

Pearson Education India Advanced Problems in Organic Chemistry comprises 10 chapters which are designed coherently to aid students in problem solving . The exercises in the book have been divided into two levels. The first level will help students to practice fundamental problem

A PLAN THAT ACTUALLY WORKS

HANDBOOK FOR THE INDIAN TEENAGER TO EXCEL AT JEE

Notion Press 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