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Advanced Problems In Physical Chemistry For Competitive Examination University Chemistry, 4/E Modern Approach To Chemical Calculations An Introduction To The Mole Concept Numerical Chemistry Skills in Mathematics - Play with Graphs for JEE Main and Advanced Chemistry3 NEET Guide for Physics, Chemistry & Biology Sustainable Solutions for Food Security Objective Physics for NEET Vol 1 2022 Decision Making And Problem Solving Complete Chemistry For JEE-Main | JEE-Main & Advanced (Organic, Physical, Inorganic) Medium - English Problems in Inorganic Chemistry for NEET/AIIMS Foundation Course for NEET (Part 2): Chemistry Class 9 How Change Happens Essential Physical Chemistry Reactions Rearrangements And Reagents Disease Control Priorities, Third Edition (Volume 2) Chapter-wise DPP Sheets for Chemistry NEET Elements of Physical Chemistry Extractive Metallurgy of Niobium Logistics 4.0 Master The NCERT for NEET Chemistry - Vol.2 2020 Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB Chemistry³ STOICHIOMETRY AND PROCESS CALCULATIONS Physical Chemistry Through Problems APC Learning Mathematics - Class 8 (CBSE) - Avichal Publishing Company Sustainable City Logistics Planning Organic Chemistry Sustainable Material Solutions for Solar Energy Technologies Risk-Based Tax Audits Blood and Earth Problems in Physical Chemistry JEE Main and Advanced Volume 1 Contemporary Challenges and Solutions for Mobile and Multimedia Technologies Arsenic Toxicity: Challenges and Solutions Essentials of Physical Chemistry Network Pharmacology Oxide Thin Film Transistors JEE Advanced Physics - Modern Physics Physics Briefs

The book NEET Guide for Physics, Chemistry & Biology has been written exclusively to help students crack the NEET exam. The book covers the 100% syllabus in Physics, Chemistry and Biology. The book follows the exact pattern of the NCERT books. Thus Physics has 29, Chemistry has 30 and Biology has 38 chapters. Each chapter contains Key Concepts, Solved Examples, Exercise with detailed solutions. The exercise contains MCQs as per the pattern of the NEET exam. This is followed by an exhaustive exercise. A real cracker, this book is complete in all aspects and is a must for every NEET aspirant. The book is also useful for AIIMS/ JIPMER/ AMU/ KCET etc. The book examines the fundamental principles of risk-based audits, the institutional challenges, and analytical techniques used in risk-based audit strategies. It discusses development of databases and IT infrastructure critical for effective use of risk management techniques. Chemistry is widely considered to be the central science: it encompasses concepts on which all other branches of science are developed. Yet, for many students entering university, gaining a firm grounding in chemistry is a real challenge. Chemistry³ responds to this challenge, providing students with a full understanding of the fundamental principles of chemistry on which to build later studies. Uniquely amongst the introductory chemistry texts currently available, Chemistry³'s author team brings together experts in each of organic, inorganic, and physical chemistry with specialists in chemistry education to provide balanced coverage of the fundamentals of chemistry in a way that students both enjoy and understand. The result is a text that builds on what students know already from school and tackles their misunderstandings and misconceptions, thereby providing a seamless transition from school to undergraduate study. Written with unrivalled clarity, students are encouraged to engage with the text and appreciate the central role that chemistry plays in our lives through the unique use of real-world context and photographs. Chemistry³ tackles head-on two issues pervading chemistry education: students' mathematical skills, and their ability to see the subject as a single, unified discipline. Instead of avoiding the maths, Chemistry³ provides structured support, in the form of careful explanations, reminders of key mathematical concepts, step-by-step calculations in worked examples, and a Maths Toolkit, to help students get to grips with the essential mathematical element of chemistry. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics, so students can develop an understanding of the subject as a whole. Digital formats and resources Chemistry³ is available for students and institutions to purchase in a variety of formats, and is supported by online resources. The e-book offers a mobile experience and convenient access along with functionality tools, navigation features, and links that offer extra learning support: www.oxfordtextbooks.co.uk/ebooks The e-book also features interactive animations of molecular structures, screencasts in which authors talk step-by-step through selected examples and key reaction mechanisms, and self-assessment activities for each chapter. The accompanying online resources will also include, for students: DT Chapter 1 as an open-access PDF; DT Chapter summaries and key equations to download, to support revision; DT Worked solutions to the questions in the book. The following online resources are also provided for lecturers: DT Test bank of ready-made assessments for each chapter with which to test your students DT Problem-solving workshop activities for each chapter for you to use in class DT Case-studies showing how instructors are successfully using Chemistry³ in digital learning environments and to support innovative teaching practices DT Figures and tables from the book 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. This book introduces "network pharmacology" as an emerging frontier subject of systematic drug research in the era of artificial intelligence and big data. Network Pharmacology is an original subject of fusion system biology, bioinformatics, network science and other related disciplines. It emphasizes on starting from the overall perspective of the system level and biological networks, the analysis of the laws of molecular association between drugs and their treatment objects, reveals the systematic pharmacological mechanisms of drugs, and guides the research and development of new drugs and clinical diagnosis and treatment. After it was proposed, network pharmacology has been paid attention by researchers, and it has been rapidly developed and widely used. In order to systematically reveal the biological basis of diagnosis and treatment in traditional Chinese medicine and modern medicine, we proposed a new concept of "network target" for the first time, which has become the core theory of "network pharmacology". The core principle of a network target is to construct a biological network that can be used to decipher complex diseases. The network is then used as the therapeutic target, to which multicomponent remedies are applied. This book mainly includes four parts: 1) The concept and theory of network pharmacology; 2) Common analysis methods, databases and software in network pharmacological research; 3) Typical cases of traditional Chinese medicine modernization and modern drug research based on network pharmacology; 4) Network pharmacology practice process based on drugs and diseases. 1. Best-selling study guide and well-structured study resource for NEET, AIIMS, JIPMER. 2. NEET Objective Physics Vol 1. – for class 11 3. The book follows the NCERT pattern for MBBS & BDS entrance preparation along with their school studies. 4. Diagrams, tables, figures etc support theory 5. Practice exercises after every chapter 6. Coverage of last 8 Years Questions of NEET, CBSEE AIPMT and Other Medical Entrances. The "NEET Objective Physics Volume – 01" is a complete comprehensive book designed for the medical students preparing for NEET. As the title suggests the volume -1 covers the complete NEET syllabus along with NCERT Textbook of class 11th into 17 Chapters for the simultaneous preparation of both school & exam. Every chapter is well supported by theories, diagrams, tables, figures. Important points and Notes are given in the topics to enrich students. In order to help, Check Point Exercises are given in between the text of all chapters to make students linked with the topic. Solved Examples are given with the different concepts of chapters to make students learn the problem solving skills. Exercises provided in the chapters are divided into 3 parts. Part – A: Taking it Together deals with objective questions arranged according to level of difficulty for the systematic practice. Part – B: Medical Entrance Special Format Questions – covers all special types of questions, generally asked in NEET & other Medical Entrances, Part – C: Medical Entrances' Gallery – asked questions in Last 10 years' (2020-2011) in NEET and other medical entrances. TOC Basic Mathematics, Units, Dimensions and Error Analysis, Vectors, Motion in One Dimension, Motion in a Plane and Projectile Motion, Laws of Motion, Work, Power and Energy, Circulation Motion, Rotation, Gravitation, Simple Harmonic Motion, Elasticity, Fluid Mechanics, Thermometry, Thermal Expansion and Kinetic Theory of Gases, Laws of Thermodynamics, Calorimetry and Heat Transfer, Wave Motion. Learning Mathematics - Class 8 has been written by Prof. M.L. Aggarwal in accordance with the latest syllabus of the NCERT and Guidelines issued by the CBSE on Comprehensive and Continuous Evaluation (CCE). The subject matter has been explained in a simple language and includes many examples from real life situations. Questions in the form of Fill in the Blanks, True/False statements and Multiple Choice Questions have been given under the heading 'Mental Maths'. Some Value Based Questions have also been included to impart values among students. In addition to normal questions, some Higher Order Thinking Skills (HOTS) questions have been given to enhance the analytical thinking of the students. Each chapter is followed by a Summary which recapitulates the new terms, concepts and results. Modern cities are facing the growing problem of congestion, poor air quality and lack of public space. To ameliorate the condition of goods transport in cities, sustainable city logistics planning is essential. It requires a collaborative approach among city logistics stakeholders for consolidated goods distribution inside city centers to minimize their negative impacts on city residents and their environment. The book presents theoretical studies, state of the art, and practical applications in the area of sustainable city logistics. It is composed of nine chapters. A brief description of the various chapters is provided as follows: Chapter 1 by Sharfuddin Ahmed Khan and Syed Tahaur Rehman presents a review of literature and future prospects on sustainable city logistics. Globalization, governmental rules, and regulations enforce decision makers and managers to incorporate sustainability in every aspect of their decision making (DM) specifically in city logistics. The area of sustainable city logistics is still in its developing stage and not many authors explore sustainability aspects in city logistics. The focus of this chapter is to review existing literature related to city logistics that considered sustainability in DM. A total of 40 articles that were published between 2010 to 2019 have been considered and categorized in terms of objective of study, area of research focus such as qualitative, quantitative, case study etc., and multi criteria DM methods. Finally, future prospects and directions has been proposed in sustainable city logistics. Chapter 2 by Sättar Ezzati presents challenges and opportunities in maritime logistics empty container repositioning. Maritime logistics and freight transportation are extensive and complex sectors that involve large material resources and represent intricate relationships between trade-off the various decisions and policies affecting different components. Because of the globalization, e-market and high level of customization trends, the sector has faced diversified challenges on different levels of planning including designing, scheduling, fleet sizing, decisions about container ownership, leasing and empty container repositioning, uncertainty and collaboration opportunities that already has provoked advanced coordination and intelligent optimization techniques for its global operations from strategic and tactical perspectives. Large attention of this chapter concentrates on empty containers repositioning problem and potential pathways to address this issue and how container shipping companies can handle this challenge with the help of operations research techniques from the perspectives of shipping business industry. To do so, this chapter presents a comprehensive and systematic literature review mainly focused on recent publications correspond to these logistics that maritime industries are facing. Chapter 3 by Yisha Luo, Ali Alaghandrad, Tersoo Kelechukwu, and Amin Hammad addresses the theme of smart multi-purpose utility tunnels. In terms of sustainable practices, the conventional method of open cut utility installation has proven to be a short-term solution, considering its negative impact on the environment, and its social disruptive nature. An alternative to open cut utility installation is Multi-purpose Utility Tunnels (MUTs), as it offers an economic, sustainable, and easy to manage and inspect method of utility placement. The risks associated with MUTs are both natural and manmade. As a way of tackling these risks, smart MUTs with the use of sensors will reduce the effects of the risks while supporting the operation and maintenance processes for MUT operators. To enhance decision making, data collected from the sensors are used in the MUT Information Modelling (MUTIM). MUTIM includes the utility tunnel structural model with utilities, equipment, sensors, and devices that can be used for emergency management increasing the sustainability and resilience of smart cities. Chapter 4 by Léonard Ryo Morin, Fabian Bastin, Emma Frejinger, and Martin Trépanier model truck route choices in an urban area using a recursive logit model and GPS data. They explore the use of GPS devices to capture heavy truck routes in the Montreal urban road network. The main focus lies on trips that originate or depart from intermodal terminals (rail yard, port). They descriptively analyse GPS data and use the data to estimate a recursive logit model by means of maximum likelihood. The results show the main factors affecting the route choice decisions. Using this type of predictive models when planning and designing the transport network nearby intermodal terminals could offer opportunities to reduce the negative impacts on truck movements, as the CO₂ emissions. Chapter 5 by Akolade Adegoke presents a literature review on benchmarking port sustainability performance. Sustainable development agendas are challenging the world and ports, in particular, to find ways to become more efficient while meeting economic, social and environmental objectives. Although there has been a considerable body of documentation on port green practices and performance in Europe and America, there is limited synthesis about evaluation of sustainable practices in the context of Canadian ports. This chapter provides a review of literature and initiatives employed by global ports authorities and identifies major sustainability performance indicators. Chapter 6 by Silke Hoehl, Kai-Oliver Schocke, and Petra Schaefer presents analysis and recommendations of delivery strategies in urban and suburban areas. A research series about commercial transport started in the region of Frankfurt/Main (Germany) started in 2014. The first project dealt with the commercial transport in the city centre of Frankfurt/Main. One hypothesis was that CEP vehicles are congesting the streets. A data base was built by collecting data in two streets in the centre of Frankfurt. Contrary to the expectation a significant part of commercial transport is caused by vehicles of craftsmen. After that, in 2016 the second project examined the delivery strategies of four CEP companies in Frankfurt. One research question was if CEP companies use different delivery strategies in different parts of the city. Therefore 40 delivery tours were accompanied and data was collected e.g. number of stops, number of parcels per stops, car type, transport situation, parking situation, shift lengths or GPS-track. In parallel, the traffic situation in several districts of Frankfurt were analyzed. In a third part, the two streams were put together to recommend delivery strategies for CEP-companies as well as useful insights for local authorities. As a third project of the research series a new project has just begun. The study area has been extended to the entire RheinMain region. It deals with the commercial transport and faces the challenge to manage commercial transport at a low emission level. On the one hand, the methodologies of the two preceding projects will be applied to a suburban area in the region. Recommendations will be developed. On the other hand, loading zones for electric vehicles in Frankfurt will be identified and developed. After that, a conference will give a wide overview of existing delivery concepts. By pointing out critical situations in the delivery chain, the whole last mile will be described. Chapter 7 by Shuai Ma, Jia Yu, and Ahmet Satir presents a scheme for sequential decision making with a risk-sensitive objective and constraints in a dynamic scenario. A neural network is trained as an approximator of the mapping from parameter space to space of risk and policy with risk-sensitive constraints. For a given risk-sensitive problem, in which the objective and constraints are, or can be estimated by, functions of the mean and variance of return, we generate a synthetic dataset as training data. Parameters defining a targeted process might be dynamic, i.e., they might vary over time, so we sample them within specified intervals to deal with these dynamics. We show that: i). Most risk measures can be estimated with the return variance; ii). By virtue of the state-augmentation transformation, practical problems modeled by Markov decision processes with stochastic rewards can be solved in a risk-sensitive scenario; and iii). The proposed scheme is validated by a numerical experiment. Chapter 8 by J.H.R. van Duin, B. Enserink, J.J. Daleman, and M. Vaandrager addresses the theme of sustainable alternatives selection for parcel delivery. The GHG-emissions of the transport sector are still increasing. This trend is accompanied by the strong growth of the e-commerce sector, leading to more transport movements on our road networks. In order to mitigate the externalities of the e-commerce related parcel delivery market and try to make it more sustainable, the following research question has been drafted: How could the last mile parcel delivery process beco Transparent flexible electronics is an emerging technology which makes use of wide band gap semiconductors that can be processed at low temperatures on glass or plastic substrates. Electronic systems that cover large area and curved surfaces together with transparency bring the possibility of numerous applications that are outside the scope of rigid wafer based electronics. Flexible electronics, electronic textiles, a wearable wellness system, and sensory skin are some of the applications of flexible electronics. The key factor in the realization of transparent electronics is the development of high performance fully transparent thin film transistors. Thin film transistors (TFTs) based on transparent conducting amorphous oxide semiconductors (TAOS) such as InGaZnO (IGZO), zinc tin oxide (ZTO), zinc indium tin oxide (ZITO), etc. provide additional functionalities like transparency, high field effect mobility and potential for room temperature processing. The performance of these TAOS based TFTs are superior to their silicon (a-Si:H TFTs) and organic TFTs. Though there are monographs and books on a-Si:H TFTs and organic TFTs, a book on TAOS based TFTs is rare. This book introduces the graduate students and beginners to the field of amorphous semiconductors. The mass production of this kind of TFTs on large area substrates involves the complications associated with controlling the composition of oxide compound semiconductor thin film material. Pulsed laser deposition allows for the growth of an oxide semiconductor in a very high oxygen rich environment while co-sputtering is an effective technique for the growth of a multicomponent film and to control the film chemical composition in a systematic and easy way. These manufacturing aspects will be of interest to those working in the industry. The review on the n channel, p channel TFTs, and the detailed description on the extraction of various TFT parameters like the threshold voltage, field effect mobility, sub threshold slope and on-off ratio etc. will be ready reckoner to those working in the field of transparent electronics. This revision of the introductory textbook of physical chemistry has been designed to broaden its appeal, particularly to students with an interest in biological applications. Arsenic (As) is a widely distributed element in the environment having no known useful physiological function in plants or animals. Historically, this metalloid has been known to be used widely as a poison. Effects of arsenic have come to light in the past few decades due to its increasing contamination in several parts of world, with the worst situation being in Bangladesh and West Bengal in India. This edited volume brings together diverse group of environmental science, sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination. The book covers sources of arsenic contamination, and its impact on human health and on prospective remediation both by bioremediation and phytoremediation. Applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins. The book sheds light on this global environmental issue, and proposes solutions to remove contamination through a multi-disciplinary lens and case studies from Bangladesh and India. The book may serve as a reference to environment and sustainability researchers, students and policy makers. It delivers an outline to graduate, undergraduate students and researchers, as well as academicians who are working on arsenic toxicity with respect to remediation and health issues. Society is full of would-be 'change agents'-campaigners, government officials, enlightened business people, engaged intellectuals-set on improving public services, reforming laws and regulations, guaranteeing human rights, achieving a fairer deal for the on the sharp end, and greater recognition for any number of issues. Drawing on many first-hand examples and numerous new case studies and interviews with grassroots activists and organizations around the world, as well as Oxfam's unrivalled global experience, this important book answers the question: how does change happen and how can we-governments, organizations, businesses, leaders, campaigners, employees, and ordinary citizens-make a difference? 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. The growth and development witnessed today in modern science, engineering, and technology owes a heavy debt to the rare, refractory, and reactive metals group, of which niobium is a member. Extractive Metallurgy of Niobium presents a vivid account of the metal through its comprehensive discussions of properties and applications, resources and resource processing, chemical processing and compound preparation, metal extraction, and refining and consolidation. Typical flow sheets adopted in some leading niobium-producing countries for the beneficiation of various niobium sources are presented, and various chemical processes for producing pure forms of niobium intermediates such as chloride, fluoride, and oxide are discussed. The book also explains how to liberate the metal from its intermediates and describes the physico-chemical principles involved. It is an excellent reference for chemical metallurgists, hydrometallurgists, extraction and process metallurgists, and minerals processors. It is also valuable to a wide variety of scientists, engineers, technologists, and students interested in the topic. While beginning, the preparation for Medical and Engineering Entrances, aspirants need to go beyond traditional NCERT textbooks to gain a complete grip over it to answer all questions correctly during the exam. The revised edition of MASTER THE NCERT, based on NCERT Classes XI and XII, once again brings a unique set of all kinds of Objective Type Questions for Physics, Chemistry, Biology and Mathematics. This book "Master the NCERT for NEET" Chemistry Vol-2, based on NCERT Class XII is a one-of-its-kind book providing 16 Chapters equipped with topic-wise objective questions, NCERT Exemplar Objective Questions, and a special separate format questions for NEET and other medical entrances. It also provides explanations for difficult questions and past exam questions for knowing the pattern. Based on a unique approach to master NCERT, it is a perfect study resource to build the foundation over NEET and other medical entrances. Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB, Second Edition, is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages: POLYMATH, Microsoft Excel, and MATLAB. Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions. Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages, while taking full advantage of the unique capabilities within each package. The book includes more than 170 problems requiring numerical solutions. This greatly expanded and revised second edition includes new chapters on getting started with and using Excel and MATLAB. It also places special emphasis on biochemical engineering with a major chapter on the subject and with the integration of biochemical problems throughout the book. General Topics and Subject Areas, Organized by Chapter Introduction to Problem Solving with Mathematical Software Packages Basic Principles and Calculations Regression and Correlation of Data Introduction to Problem Solving with Excel Introduction to Problem Solving with MATLAB Advanced Problem-Solving Techniques Thermodynamics Fluid Mechanics Heat Transfer Mass Transfer Chemical Reaction Engineering Phase Equilibrium and Distillation Process Dynamics and Control Biochemical Engineering Practical Aspects of Problem-Solving Capabilities Simultaneous Linear Equations Simultaneous Nonlinear Equations Linear, Multiple Linear, and Nonlinear Regressions with Statistical Analyses Partial Differential Equations (Using the Numerical Method of Lines) Curve Fitting by Polynomials with Statistical Analysis Simultaneous Ordinary Differential Equations (Including Problems Involving Stiff Systems, Differential-Algebraic Equations, and Parameter Estimation in Systems of Ordinary Differential Equations) The Book's Web Site (<http://www.problemsolvingbook.com>) Provides solved and partially solved problem files for all three software packages, plus additional materials Describes discounted purchase options for educational version of POLYMATH available to book purchasers Includes detailed, selected problem solutions in Maple, Mathcad, and Mathematica Sustainable Material Solutions for Solar Energy Technologies: Processing Techniques and Applications provides an overview of challenges that must be addressed to efficiently utilize solar energy. The book explores novel materials and device architectures that have been developed to optimize energy conversion efficiencies and minimize environmental impacts. Advances in technologies for harnessing solar energy are extensively discussed, with topics including materials processing, device fabrication, sustainability of materials and manufacturing, and current state-of-the-art. Leading international experts discuss the applications, challenges, and future prospects of research in this increasingly vital field, providing a valuable resource for students and researchers working in this field. Explores the fundamentals of sustainable materials for solar energy applications, with in-depth discussions of the most promising material solutions for solar energy technologies: photocatalysis, photovoltaic, hydrogen production, harvesting and storage Discusses the environmental challenges to be overcome and importance of efficient materials utilization for clean energy Looks at design materials processing and optimization of device fabrication via metrics such as power-to-weight ratio, effectiveness at EOL compared to BOL, and life-cycle analysis Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations. Providing equal coverage of organic, inorganic and physical chemistry - coverage that is uniformly authoritative - this text builds on what students may already know and tackles their misunderstandings and misconceptions. The authors achieve unrivalled accessibility through carefully worded explanations, the introduction of concepts in a logical and progressive manner, and the use of annotated diagrams and step-by-step worked examples. Students are encouraged to engage with the text and appreciate the central role that chemistry plays in our lives through the unique use of real-world examples and visuals. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics, so students can develop an understanding of the subject as a whole. 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 evaluation of reproductive, maternal, newborn, and child health (RMNCH) by the Disease Control Priorities, Third Edition (DCP3) focuses on maternal conditions, childhood illness, and malnutrition. Specifically, the chapters address acute illness and undernutrition in children, principally under age 5. It also covers maternal mortality, morbidity, stillbirth, and influences to pregnancy and pre-pregnancy. Volume 3 focuses on developments since the publication of DCP2 and will also include the transition to older childhood, in particular, the overlap and commonality with the child development volume. The DCP3 evaluation of these conditions produced three key findings: 1. There is significant difficulty in measuring the burden of key conditions such as unintended pregnancy, unsafe abortion, nonsexually transmitted infections, infertility, and violence against women. 2. Investments in the continuum of care can have significant returns for improved and equitable access, health, poverty, and health systems. 3. There is a large difference in how RMNCH conditions affect different income groups; investments in RMNCH can lessen the disparity in terms of both health and financial risk. In the past few years, the IIT-JEE has evolved as an examination designed to check a candidate's true scientific skills. The examination pattern needs one to see those little details which others fail to see. These details tell us how much in-depth we should know to explain a concept in the right direction. Keeping the present-day scenario in mind, JEE Advanced Physics series is written for students, to allow them not only to learn the tools but also to see why they work so nicely in explaining the beauty of ideas behind the subject. The central goal of this series is to help the students develop a thorough understanding of Physics as a subject. This series stresses on building a rock-solid technical knowledge based on firm foundation of the fundamental principles followed by a large collection of formulae. The primary philosophy of this series is to guide the aspirants towards detailed groundwork for strong conceptual understanding and development of problem-solving skills like mature and experienced physicists. This updated Third Edition of the series will help the aspirants prepare for both Advanced and Main levels of JEE conducted for IITs and other elite engineering institutions in India. This book will also be equally useful for the students preparing for Physics Olympiads. All books in this series are enriched with detailed exhaustive theory that introduces the concepts of Physics in a clear, concise, thorough and easy-to-understand language. A large collection of relevant problems is provided in eight major categories (including updated archive for JEE Advanced and JEE Main), for which the solutions are demonstrated in a logical and stepwise manner. Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world. For readers of such crusading works of nonfiction as Katherine Boo's *Beyond the Beautiful Forever* and Tracy Kidder's *Mountains Beyond Mountains* comes a powerful and captivating examination of two entwined global crises: environmental destruction and human trafficking—and an inspiring, bold plan for how we can solve them. A leading expert on modern-day slavery, Kevin Bales has traveled to some of the world's most dangerous places documenting and battling human trafficking. In the course of his reporting, Bales began to notice a pattern emerging: Where slavery existed, so did massive, unchecked environmental destruction. But why? Bales set off to find the answer in a fascinating and moving journey that took him into the lives of modern-day slaves and along a supply chain that leads directly to the cellphones in our pockets. What he discovered is that even as it destroys individuals, families, and communities, new forms of slavery that proliferate in the world's lawless zones also pose a grave threat to the environment. Simply put, modern-day slavery is destroying the planet. The product of seven years of travel and research, *Blood and Earth* brings us dramatic stories from the world's most beautiful and tragic places, the environmental and human-rights hotspots where this crisis is concentrated. But it also tells the stories of some of the most common products we all consume—from computers to shrimp to jewelry—whose origins are found in these same places. *Blood and Earth* calls on us to recognize the grievous harm we have done to one another, put an end to it, and recommit to repairing the world. This is a clear-eyed and inspiring book that suggests how we can begin the work of healing humanity and the planet we share. Praise for *Blood and Earth* "A heart-wrenching narrative . . . Weaving together interviews, history, and statistics, the author shines a light on how the poverty, chaos, wars, and government corruption create the perfect storm where slavery flourishes and environmental destruction follows. . . . A clear-eyed account of man's inhumanity to man and Earth. Read it to get informed, and then take action."—Kirkus Reviews (starred review) "[An] exposé of the global economy's 'deadly dance' between slavery and environmental disaster. . . . Based on extensive travels through eastern Congo's mineral mines, Bangladeshi fisheries, Ghanaian gold mines, and Brazilian forests, Bales reveals the appalling truth in graphic detail. . . . Readers will be deeply disturbed to learn how the links connecting slavery, environmental issues, and modern convenience are forged."—Publishers Weekly "This well-researched and vivid book studies the connection between slavery and environmental destruction, and what it will take to end both."—Shelf Awareness (starred review) "This is a remarkable book, demonstrating once more the deep links between the ongoing degradation of the planet and the ongoing degradation of its most vulnerable people. It's a bracing reminder that a mentality that allows throwaway people also allows a throwaway earth."—Bill McKibben, author of *Eaarth: Making a Life on a Tough New Planet* Our NEET Foundation series is sharply focused for the NEET aspirants. Most of the students make a career choice in the middle school and, therefore, choose their stream informally in secondary and formally in senior secondary schooling, accordingly. If you have decided to make a career in the medical profession, you need not look any further! Adopt this series for Class 9 and 10 today. In *Decision Making and Problem Solving: A Practical Guide for Applied Research*, the author utilizes traditional approaches, tools, and techniques adopted to solve current day-to-day, real-life problems. The book offers guidance in identifying and applying accurate methods for designing a strategy as well as implementing these strategies in the real world. The book includes realistic case studies and practical approaches that should help readers understand how the decision making occurs and can be applied to problem solving under deep uncertainty. Complete Chemistry For JEE-Main | JEE-Main & Advanced (Organic, Physical, Inorganic) Medium - English This volume is the first centralized source of technological and policy solutions for sustainable agriculture and food systems resilience in the face of climate change. The editors have compiled a comprehensive collection of the latest tested, replicable green technologies and approaches for food security, including smart crops and new agricultural paradigms, sustainable natural resources management, and strategies for risk assessment and governance. Studies from resource-constrained countries with vulnerable populations are emphasized, with contributions on multisector partnership from development professionals. Debates concerning access to climate-smart technologies, intellectual property rights, and international negotiations on technology transfer are also included. The editors are, respectively, a public health physician, a development professional and an environmental scientist. They bring their varied perspectives together to curate a holistic volume that will be useful for policy makers, scientists, community-based organizations, international organizations and researchers across the world. Mobile computing and multimedia technologies continue to expand and change the way we interact with each other on a business and social level. With the increased use of mobile devices and the exchange of information over wireless networks, information systems are able to process and transmit multimedia data in various areas. *Contemporary Challenges and Solutions for Mobile and Multimedia Technologies* provides comprehensive knowledge on the growth and changes in the field of multimedia and mobile technologies. This reference source highlights the advancements in mobile technology that are beneficial for developers, researchers, and designers. 1. The book is prepared for the problem solving in chemistry 2. It is divided into 8 chapters 3. Each chapter is typically divided into quick theory, Immediate Test and Knowledge Confirmation Test 4. At the end of the each chapter cumulative exercises for JEE Main & Advanced for practice 5. 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Detailed and explanatory solutions provided to all the questions for the better understanding. TOC Mole concept and Stoichiometry, Atomic Structure, Stages of Matter – 1, Stages of Matter – 2, Thermodynamic, Thermochemistry, Chemical Equilibrium, Ionic Equilibrium. This textbook is designed for undergraduate courses in chemical engineering and related disciplines such as biotechnology, polymer technology, petrochemical engineering, electrochemical engineering, environmental engineering, safety engineering and industrial chemistry. The chief objective of this text is to prepare students to make analysis of chemical processes through calculations and also to develop in them systematic problem-solving skills. The students are introduced not only to the application of law of combining proportions to chemical reactions (as the word 'stoichiometry' implies) but also to formulating and solving material and energy balances in processes with and without chemical reactions. The book presents the fundamentals of chemical engineering operations and processes in an accessible style to help the students gain a thorough understanding of chemical process calculations. It also covers in detail the background materials such as units and conversions, dimensional analysis and dimensionless groups, property estimation, P-V-T behaviour of fluids, vapour pressure and phase equilibrium relationships, humidity and saturation. With the help of examples, the book explains the construction and use of reference-substance plots, equilibrium diagrams, psychrometric charts, steam tables and enthalpy composition diagrams. It also elaborates on thermophysics and thermochemistry to acquaint the students with the thermodynamic principles of energy balance calculations. Key Features : • SI units are used throughout the book. • Presents a thorough introduction to basic chemical engineering principles. • Provides many worked-out examples and exercise problems with answers. • Objective type questions included at the end of the book serve as useful review material and also assist the students in preparing for competitive examinations such as GATE.

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