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This book is the revised edition of Understanding Basic Chemistry Through Problem Solving published in 2015. It is in a series of Understanding Chemistry books, which deals with Basic Chemistry using the problem solving approach. Written for students taking either the university of Cambridge O-level examinations or the GCSE examinations, this guidebook covers essential topics and concepts under both stipulated chemistry syllabi. The book is written in such a way as to guide the reader through the understanding and applications of essential chemical concepts using the problem solving approach. The authors have also retained the popular discourse feature from their previous few books — Understanding Advanced Physical Inorganic Chemistry, Understanding Advanced Organic and Analytical Chemistry, Understanding Advanced Chemistry Through Problem Solving, and Understanding Basic Chemistry — to help the learners better understand and see for themselves, how the concepts should be applied during solving problems. Based on the Socratic Method, questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts and the way they are being applied to explain the problems. In addition, the authors have also included important summaries and concept maps to help the learners to recall, remember, reinforce and apply the fundamental chemical concepts in a simple way. Request Inspection Copy
University Curricula in the Marine Sciences and Related Fields World Scientific Publishing Company
The aim of this book is to provide both a rigorous view and a more practical, understandable view of industrial chemistry and biochemical physics. This book is geared toward readers with both direct and lateral interest in the discipline. This volume is structured into different parts devoted to industrial chemistry and biochemical physics and their applications. Every section of the book has been expanded, where relevant, to take account of significant new discoveries and realizations of the importance of key concepts. Furthermore, emphases are placed on the underlying fundamentals and on acquisition of a broad and comprehensive grasp of the field as a whole. With contributions from experts from both the industry and academia, this book presents the latest developments in the identified areas. This book incorporates appropriate case studies, explanatory notes, and schematics for more clarity and better understanding. This new book: • Highlights some important areas of current interest in biochemical physics and chemical processes • Focuses on topics with more advanced methods • Emphasizes precise mathematical development and actual experimental details • Analyzes theories to formulate and prove the physicochemical principles • Provides an up-to-date and thorough exposition of the present state of the art of complex materials Topics include: • Photoelectrochemical properties of films of extra-coordinated tetrapyrrole compounds and their relationship with the quantum chemical parameters of the molecules • Bio-structural energy criteria of functional states in normal and pathological conditions • The ozone resistance of covulcanizates butadiene–nitrile rubbers with chlorinated ethylene–propylene–diene elastomers • Ways of regulation of release of medicinal substances from chitosan films • Environmental durability of powder polyester paint coatings • Ozone decomposition • Design and synthesis of its derivative with enhanced potential to scavenge hypochlorite radical scavenging capacity of n-(2-mercapto-2-methylpropionyl)-L-cysteine • Bacterial poly(3-hydroxybutyrate) as a biodegradable polymer for biomedicine • Designing, analysis, and industrial use of the dynamic spray scrubber • Magnetic properties of organic paramagnet • The effect of antioxidant drug mexidol on bioenergetic processes and nitric oxide formation in the animal tissues
American Scientific Books World Scientific
This proceedings volume presents invited reviews and original short notes of recent results obtained in studies concerning the fabrication and application of nanostructures, which hold great promise for the new generation of electronic and optoelectronic devices. Governing exciting and relatively new topics such as fast-progressing nanoelectronics and optoelectronics, molecular electronics and spintronics, as well as nanotechnology and quantum processing of information, this books gives readers a more complete understanding of the practical uses of nanotechnology and nanostructures.
Reviews and Short Notes : Proceedings of the International Conference, Nanomeeting-2007, Minsk, Belarus, 22-25 May 2007 Arihant Publications India limited
Mathematics for Physical Chemistry, Third Edition, is the ideal text for students and physical chemists who want to sharpen their mathematics skills. It can help prepare the reader for an undergraduate course, serve as a supplementary text for use during a course, or serve as a reference for graduate students and practicing chemists. The text concentrates on applications instead of theory, and, although the emphasis is on physical chemistry, it can also be useful in general chemistry courses. The Third Edition includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The first ten chapters are constructed around a sequence of mathematical topics, with a gradual progression into more advanced material. The final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems interspersed throughout the presentations Each extensive chapter contains a preview, objectives, and summary Includes topics not found in similar books, such as a review of general algebra and an introduction to group theory Provides chemistry specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics
World List of Books in English World Scientific Publishing Company
Problems in Physical Chemistry for JEE (Main & Advanced), Chemistry Olympiad etc 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– Understanding of concepts and their application to the grass-root level. 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 (Advanced) & similar advanced level exams. 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 - 1. Basic Concepts of Chemistry 2. Atomic Structure 3. Gaseous State 4. Chemical Energetics 5. Redox & Volumetric Analysis 6. Chemical Equilibrium 7. Acid-Base & Ionic Equilibrium 8. Chemical Kinetics 9. Nuclear Chemistry 10. Electro Chemistry 11. Solid State 12. Solutions 13. Surface Chemistry
Understanding Chemistry for Advanced Level CRC Press
Matches the specifications of the Awarding Bodies (AQA:NEAB / AEB, OCR and Edexcel). This accessible text includes frequent hints, questions and examination questions, providing support and facilitating study at home. It features photographs and comprehensive illustrations with 3D chemical structures.
Problems in Physical Chemistry JEE Main and Advanced Volume 1 World Scientific Publishing Company
1. The book is prepared for the problem solving in chemistry 2. It is divided into 5 chapters 3. Each chapter is topically 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. ‘Acid Test for JEE Mains & Advance’ containing all types of questions asked in JEE A common phrase among JEE Aspirants that chemistry is the most scoring subject, but the problems asked in JEE Exams are not directly related but they are based on multiple applications. Introducing the all new edition of “Problem Physical Chemistry JEE Main & Advanced Volume – 2” which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in JEE. The book divides the syllabus into 5 chapters and each chapter has been topically divided in quick theory, different types of Solved Examination, followed by ‘Immediate Test’ along with the Topicwise short exercises ‘Knowledge Confirmation Test’. At the end of each chapter there are separate cumulative exercises for JEE Main & Advanced, ‘Acid Test for JEE Mains & Advance’ are also provided containing all types of questions asked in JEE. Detailed and explanatory solutions provided to all the questions for the better understanding. TOC Solid State, Solution and Colligative Properties, Electrochemistry, Chemical Kinetics, Surface Chemistry
Cumulative Book Index Oxford University Press, USA
During the last three decades, there have been dramatic changes in the steel industry in terms of the quality of products, processing technology, energy efficiency, labor productivity and environmental protection. The once prominent role of the metals industry in national economies is declining in industrialized countries to the point where fewer research engineers are employed in the industry. The scope of this book is limited to selected topics within the field of Physical Chemistry of Iron and Steelmaking"that are relevant to reduction, refining and solidification steps in the steel industry. The authors, leaders in the field, have gathered the complex information regarding metallurgy in this collection to enable the next generation to take this branch of science, and the metals industry, to new heights. Graduate students and research engineers will find this book particularly useful, while practicing engineers, innovators and managers in technology developmentwill read and consult this book for inspiration and reference. Key Features * Covers both equilibrium and non-equilibrium phenomena * Projects challenges to be answered by current or future researchers and innovators in industry * Each article reviews major achievements in scientific understanding on the subject
Understanding Advanced Chemistry Through Problem Solving Problems in Physical Chemistry JEE Main and Advanced Volume 2
Advanced Physical Chemistry Practical Guide aims to improve the student’s understanding of theory through practical experience and by facilitating experimental exercises. The book covers a wide range of areas from basic to advanced experiments including the calibration of instruments as well as the use of software for accurate computational quantum chemical calculations. This book is divided into four sections: Part I - general introduction, calibration of glassware, instruments and precautions Part II - experiments that have a simple theoretical background and classical methods Part III - experiments that are associated with more advanced theory, and technique that require a greater degree of experimental skill and instrumentation Part IV – investigative experiments relying on computers Covering all aspects of classical, advanced and computational chemistry experiments, Advanced Physical Chemistry Practical Guide will enable students to gain confidence in their ability to perform a physical chemistry experiment and to appreciate the value of an experimental approach towards the subject. Advanced Physical Chemistry Practical Guide is an essential handbook for students and teachers at advanced levels who seek to learn practical knowledge about important aspects of physical chemistry.
Reviews and Short Notes to Nanomeeting 2007, Minsk, Belarus, May 22-25, 2007 S. Chand Publishing
First multi-year cumulation covers six years: 1965-70.
Annual Catalogue of the University of Kansas Career Point Publication
Informal, effective undergraduate-level text introduces vibrational and electronic spectroscopy, presenting applications of group theory to the interpretation of UV, visible, and infrared spectra without assuming a high level of background knowledge. 200 problems with solutions. Numerous illustrations. "A uniform and consistent treatment of the subject matter." — Journal of Chemical Education.

Understanding Voltammetry: Problems And Solutions Elsevier
Syracuse, New York, 26–27 July 2006
Problems in Physical Chemistry JEE Main and Advanced Volume 2 Nelson Thornes
Problems in Physical Chemistry JEE Main and Advanced Volume 2Arihant Publications India limited
The Learner's Approach(In 2 Volumes) Academic Press
This proceedings volume presents invited reviews and original short notes of recent results obtained in studies concerning the fabrication and application of nanostructures, which hold great promise for the new generation of electronic and optoelectronic devices. Governing exciting and relatively new topics such as fast-progressing nanoelectronics and optoelectronics, molecular electronics and spintronics, as well as nanotechnology and quantum processing of information, this book gives readers a more complete understanding of the practical uses of nanotechnology and nanostructures.
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A Textbook of Physical Chemistry: Second Edition provides both a traditional and theoretical approach in the study of physical chemistry. The book covers subjects usually covered in chemistry textbooks such as ideal and non-ideal gases, the kinetic molecular theory of gases and the distribution laws, and the additive physical properties of matter. Also covered are the three laws of thermodynamics, thermochemistry, chemical equilibrium, liquids and their simple phase equilibria, the solutions of nonelectrolytes, and heterogenous equilibrium. The text is recommended for college-level chemistry students, especially those who are in need of a textbook for the subject.
Problems in Physical Chemistry for JEE (Main & Advanced) by Career Point Elsevier
1. The book is prepared for the problem solving in chemistry 2. It is divided into 8 chapters 3. Each chapter is topically 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. 'Acid Test for JEE Mains & Advance' containing all types of questions asked in JEE A common phrase among JEE Aspirants that chemistry is the most scoring subject, but the problems asked in JEE Exams are not directly related but they are based on multiple applications. Introducing the all new edition of "Problem Physical Chemistry JEE Main & Advanced Volume – 1" which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in JEE. The book divides the syllabus into 8 chapters and each chapter has been topically divided in quick theory, different types of Solved Examination, followed by 'Immediate Test' along with the Topicwise short exercises 'Knowledge Confirmation Test'. At the end of each chapter there are separate cumulative exercises for JEE Main & Advanced, 'Acid Test for JEE Mains & Advance' are also provided containing all types of questions asked in JEE. Detailed and explanatory solutions provided to all the questions for the better understanding. TOC Mole concept and Stiochiometry, Atomic Structure, Stages of Matter – 1, Stages of Matter – 2, Thermodynamic, Thermochemistry, Chemical Equilibrium, Ionic Equilibrium.
2006 Physics Education Research Conference World Scientific Publishing Company
Written for students taking either the University of Cambridge Advanced Level examinations or the International Baccalaureate examinations, this guidebook covers essential topics and concepts under both stipulated chemistry syllabi. The book is written in such a way as to guide the reader through the understanding and applications of essential chemical concepts using the problem solving approach. The authors have also retained the popular discourse feature from their previous two books — Understanding Advanced Physical Inorganic Chemistry and Understanding Advanced Organic and Analytical Chemistry — to help learners better understand and see for themselves how the concepts should be applied to solve problems. Based on the Socratic Method, questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts and the way they are being applied to explain the problems. In addition, the authors have also included important summaries and concept maps to help learners recall, remember, reinforce and apply the fundamental chemical concepts in a simple way. Request Inspection Copy
Biophysical Chemistry World Scientific
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.
Principles and Technological Implications Rr Bowker Llc
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.
Official Register of the Officers and Cadets of the U.S. Military Academy Bentham Science Publishers
Biophysical Chemistry, Volume I: Thermodynamics, Electrostatics, and the Biological Significance of the Properties of Matter focuses on the biological aspects of the properties of matter, putting emphasis on the chemical elements, water and carbon dioxide, complex molecules, and proteins. The publication first elaborates on biochemistry and geochemistry, water and its biological significance, and the problems of protein structure. Discussions focus on the number of peptide chains in the molecule and nature of terminal groups, latent heat of fusion, characteristics of the amino acids derived from proteins, expansion of water in freezing, and the relative abundance of chemical elements in the universe. The text then takes a look at thermodynamics and the application to polar molecules and ionic solutions of electrostatics, including free energy of a charged sphere, image charges, salting-out effect, expressions for the change of fundamental thermodynamic functions, and chemical potentials. The book examines the conductivity of electrolytes, acid-base equilibria, and polybasic acids, bases, and ampholytes, including proteins. Topics include ionization of cysteine, isoelectric points of polyvalent ampholytes, hemoglobin, nature of acids and bases, measurement of conductivity, electrolytes as conductors, and the moving boundary method of determining transference numbers. The manuscript is a dependable reference for chemists and researchers interested in thermodynamics, electrostatics, and the biological value of the properties of matter.