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STEVENS ALICE

A Textbook of Engineering Chemistry Pearson Education India

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.

Basic Electrical and Electronics Engineering: John Wiley & Sons

With well over 90% of all processes in the industrial chemical production being of catalytic nature, catalysis is a mature though ever interesting topic. The idea of this book is to tackle various aspects of heterogeneous catalysis from the engineering point of view and go all the way from engineering of catalysis, catalyst preparation, characterization, reaction kinetics, mass transfer to catalytic reactors and the implementation of catalysts in chemical technology. Aimed for graduate students it is also a useful resource for professionals coming from the more academic side.

Textbook of Engineering Chemistry, 4th Edition Routledge

Engineering Chemistry is an interdisciplinary subject offered to undergraduate Engineering students. This book introduces the fundamental concepts in a simple and concise manner and highlights the role of chemistry in the field of engineering. It includes a large number of end-of-chapter exercises that test the student's understanding besides being useful from the examination point of view.

Engineering Chemistry New Age International

Chemical processes provide a diverse array of valuable products and materials used in applications ranging from health care to transportation and food processing. Yet these same chemical processes that provide products and materials essential to modern economies, also generate substantial quantities of wastes and emissions. Green Chemistry is the utilization of a set of principles that reduces or eliminate the use or generation of hazardous substances in design. Due to extravagant costs needed to managing these wastes, tens of billions of dollars a year, there is a need to propose a way to create less waste. Emission and treatment standards continue to become more stringent, which causes these costs to continue to escalate. Green Chemistry and Engineering describes both the science (theory) and engineering (application) principles of Green Chemistry that lead to the generation of less waste. It explores the use of milder manufacturing conditions resulting from the use of smarter organic synthetic techniques and the maintenance of atom efficiency that can temper the effects of chemical processes. By implementing these techniques means less waste, which will save industry millions of dollars over time. - Chemical processes that provide products and materials essential to modern economies generate substantial quantities of wastes and emissions, this new book describes both the science (theory) and engineering (application) principles of Green Chemistry that lead to the generation of less waste - This book contains expert advice from scientists around the world, encompassing developments in the field since 2000 - Aids manufacturers, scientists, managers, and engineers on how to implement ongoing changes in a vast developing field that is important to the environment and our lives

Engineering Chemistry (PtU) I. K. International Pvt Ltd

This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

ENGINEERING CHEMISTRY (AS PER NEP 2020, VTU) John Wiley & Sons

General Chemistry for Engineers explores the key areas of chemistry needed for engineers. This

book develops material from the basics to more advanced areas in a systematic fashion. As the material is presented, case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering. - Serves as a unique chemistry reference source for professional engineers - Provides the chemistry principles required by various engineering disciplines - Begins with an 'atoms first' approach, building from the simple to the more complex chemical concepts - Includes engineering case studies connecting chemical principles to solving actual engineering problems - Links chemistry to contemporary issues related to the interface between chemistry and engineering practices

Chemistry for Engineering Students S. Chand Publishing

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

Higher Engineering Mathematics S. Chand Publishing

The book is revised specifically to address the needs of the latest course curriculum in Engineering Chemistry for the first semester students of all branches of engineering. The topics covered in the book are customarily taught in several universities and institutes. The book exposes students to fundamental knowledge in Water technology • Applications of surface chemistry and concept of nuclear energy and energy storage devices • Alloys and phase rule • Electrochemistry and principle involved in corrosion and its inhibition and protective coatings • Analysis of fuels and combustion

KEY FEATURES • Several worked-out examples to help students reinforce their comprehension of theory • Numerous short and descriptive questions at the end of each chapter to test and foster students' conceptual understanding of the subject • Chapter-end problems to help students become proficient in problem solving

TARGET AUDIENCE Students of first-year BE/BTech (All Branches)

ENGINEERING CHEMISTRY FOR DIPLOMA S. Chand Publishing

While existing books related to DOE are focused either on process or mixture factors or analyze specific tools from DOE science, this text is structured both horizontally and vertically, covering the three most common objectives of any experimental research: * screening designs * mathematical modeling, and * optimization. Written in a simple and lively manner and backed by current chemical product studies from all around the world, the book elucidates basic concepts of statistical methods, experiment design and optimization techniques as applied to chemistry and chemical engineering. Throughout, the focus is on unifying the theory and methodology of optimization with well-known statistical and experimental methods. The author draws on his own experience in research and development, resulting in a work that will assist students, scientists and engineers in using the concepts covered here in seeking optimum conditions for a chemical system or process. With 441 tables, 250 diagrams, as well as 200 examples drawn from current chemical product studies, this is an invaluable and convenient source of information for all those involved in process optimization.

Engineering Mathematics-II Cambridge University Press

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Engineering Chemistry Walter de Gruyter

Water And Its Industrial Applications | Fuels And Combustion | Lubricants | Cement And Refractories| Polymers | Instrumental Techniques In Chemical Analysis | Water Analysis Techniques | Question Bank

S. Chand's Applied Chemistry Volume - 1 (For 1st Semester of Mumbai University) S. Chand Publishing

Reflecting Cengage Learning's commitment to offering flexible teaching solutions and value, this new hybrid version features the instructional presentation found in the printed text while delivering all the end-of chapter exercises online in OWLv2, the leading online learning system for chemistry. The result--a briefer printed text that engages students online! An access code to OWLv2 with MindTap Reader, is included with the text, providing learners with powerful online resources that include tutorials, simulations, randomized homework questions, videos, a complete interactive electronic version of the textbook, and more! Enhanced with a remarkable number of new problems and applications, the Third Edition of CHEMISTRY FOR ENGINEERING STUDENTS provides a concise, thorough, and relevant introduction to chemistry that prepares learners for further study in any engineering field. Updated with even more questions and applications specifically geared toward engineering, the book emphasizes the connection between molecular properties and observable physical properties and the connections between chemistry and other subjects such as mathematics and physics. This new edition is now fully supported by OWL, the most widely-used online learning system for chemistry.

Essentials of Physical Chemistry 28th Edition S. Chand Publishing

Buy Solved Series of Engineering Chemistry (E-Book) for B.Tech I & II Semester Students (Common to All) of APJ Abdul Kalam Technological University (KTU), Kerala

Introduction to Corrosion Science Routledge

Promotes a green approach to chemistry and chemical engineering for a sustainable planet With this text as their guide, students will gain a new outlook on chemistry and engineering. The text fully covers introductory concepts in general, organic, inorganic, and analytical chemistry as well as biochemistry. At the same time, it integrates such concepts as greenhouse gas potential, alternative and renewable energy, solvent selection and recovery, and ecotoxicity. As a result, students learn how to design chemical products and processes that are sustainable and environmentally friendly.

Green Chemistry and Engineering presents the green approach as an essential tool for tackling problems in chemistry. A novel feature of the text is its integration of introductory engineering concepts, making it easier for students to move from fundamental science to applications.

Throughout this text, the authors integrate several features to help students understand and apply basic concepts in general chemistry as well as green chemistry, including: Comparisons of the environmental impact of traditional chemistry approaches with green chemistry approaches

Analyses of chemical processes in the context of life-cycle principles, demonstrating how chemistry fits within the complex supply chain Applications of green chemistry that are relevant to students' lives and professional aspirations Examples of successful green chemistry endeavors, including Presidential Green Chemistry Challenge winners Case studies that encourage students to use their critical thinking skills to devise green chemistry solutions Upon completing this text, students will come to understand that chemistry is not antithetical to sustainability, but rather, with the application of green principles, chemistry is the means to a sustainable planet.

Applied Chemistry PHI Learning Pvt. Ltd.

A Textbook of Engineering Chemistry

ENGINEERING CHEMISTRY, FOURTH EDITION Springer

This comprehensive textbook describes the synthesis, characterization and technical and

engineering applications of polymers. Offering a broad and balanced introduction to the basic concepts of macromolecular chemistry and to the synthesis and physical chemistry of polymers, it is the ideal text for graduate students and advanced Masters students starting out in polymer science. Building on the basic principles of organic chemistry and thermodynamics, it provides an easily understandable and highly accessible introduction to the topic. Step by step, readers will obtain a detailed and well-founded understanding of this vibrant and increasingly important subject area at the intersection between chemistry, physics, engineering and the life sciences. Following an approach different from many other textbooks in the field, the authors, with their varying backgrounds (both from academia and industry), offer a new perspective. Starting with a clear and didactic introduction, the book discusses basic terms and sizes and shapes of polymers and macromolecules. There then follow chapters dedicated to polymers in solutions, molar mass determination, and polymers in the solid state, incl. (partially) crystalline or amorphous polymers as well as their application as engineering materials. Based on this information, the authors explain the most important polymerization methods and techniques. Often neglected in other textbooks, there are chapters on technical polymers, functional polymers, elastomers and liquid crystalline polymers, as well as polymers and the environment. An overview of current trends serves to generate further interest in present and future developments in the field. This book is the English translation of the successful German textbook "Polymere", which was awarded the Chemical Industry in Germany's 2015 literature Prize ("Literaturpreis des Fonds der Chemischen Industrie") for its innovative, novel approach, and its good accessibility and readability, while at the same time providing comprehensive coverage of the field of polymer science.

Engineering Chemistry Vikas Publishing House

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

Basic Engineering Mathematics Pearson Education

Textbook of Engineering Chemistry is a comprehensive book which blends basic topics in chemistry with applied chemistry. It is important for Engineers to have a good understanding of subject as they look forward to designing and developing newer materials with requisite properties and structures that are eco-friendly, economical and long lasting. New improved styling of contents. Applied topics are preceded by corresponding basic chemistry Several numerical problems, multiple choice questions and short and essay type questions are included New chapters on chemical aspects of Biotechnology and Advanced Materials are added.

Engineering Chemistry Springer Science & Business Media

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.

Green Chemistry and Engineering Pearson Education India

S.Chand's Applied Chemistry

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