Journal of General Chemistry of the U.S.S.R. in English Translation

Engineering Applications in Sustainable Design and Development

Cengage Learning's commitment to offering flexible teaching solutions and value for students and instructors, 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 enhances your grades and understanding of concepts with this value-packed Hybrid Edition of GENERAL CHEMISTRY, 10th edition. An access code to OWLv2 with MindTap Reader is included with the text, providing you with powerful online resources that include tutorials, simulations, randomized homework questions, videos, a complete interactive electronic version of the textbook, and more! The 10th edition continues to offer the signature clear explanations, macro to micro orientation, and enhanced problem-solving strategies that have made the book a best-seller. Featuring a new design and a significantly enhanced art program that convey the excitement of chemistry, this Hybrid Edition provides you with even more learning support through a new "Gaining Mastery Toolbox" feature in all examples, more micro-macro presentations, new two-tier questions, and a new end-of-chapter "Checklist for Review."

Books in Print

Cet ouvrage propose aux étudiants des premières années d'études supérieures une méthode progressive et efficace pour comprendre et appliquer les concepts fondamentaux de la chimie des solutions. Après des rappels de cours clairs et concis, sous forme de fiches, chaque chapitre propose des exercices de difficulté croissante pour s'évaluer et s'entraîner : QCM, questions Vrai/Faux et exercices de synthèse. Tous sont corrigés : questions Vrai/Faux et exercices de synthèse bénéficient d'une réponse détaillée mettant en évidence la méthodologie. Un schéma de synthèse à la fin de chaque chapitre relie les différentes notions abordées.

General Chemistry

General Chemistry

"Atoms First seems to be the flavor of the year in chemistry textbooks, but many of them seem to be little more than rearrangement of the chapters. It takes a master like McQuarrie to go back to the drawing board and create a logical development from smallest to largest that makes sense to students."—Hal Harris, University of Missouri-St. Louis "McQuarrie's book is extremely well written, the order of topics is logical, and it does a great job with both introductory material and more advanced concepts. Students of all skill levels will be able to learn from this book."—Mark Kearley, Florida State University This new fourth edition of General Chemistry takes an atoms-first approach from beginning to end. In the tradition of McQuarrie's many previous works, it promises to be another ground-breaking text. This superb new book combines the clear writing and wonderful problems that have made McQuarrie famous among chemistry professors and students worldwide. Presented in an elegant design with all-new illustrations, it is available in a soft-cover edition to offer professors a fresh choice at an outstanding value. Student supplements include an online series of descriptive chemistry Interchapters, a Student Solutions Manual, and an optional state-of-the-art Online Homework program. For adopting professors, an Instructor's Manual and a CD of the art are also available.

General Chemistry: Principles and Modern Applications

The Publishers' Trade List Annual

Chemistry for the Health Sciences

General Chemistry with Qualitative Analysis

General Chemistry: Principles and Modern Applications is recognizedfor its superior problems, lucid writing, and precision of argument. This updated and expanded edition retains the popular and innovative features of previous editions—including Feature Problems, follow-up Integrative and Practice Exercises to accompany every in-chapter Example, and Focus On application boxes, as well as new Keep inMind marginal notes. Topics covered include atoms and the atomich theory, chemical compounds and reactions, gases, Thermochemistry, electrons in atoms, chemical bonding, liquids, solids, and intermolecular forces, chemical kinetics, principles of chemical equilibrium, acids and bases, electrochemistry, representative and transitional elements, and nuclear and organic chemistry. For individuals interested in a broad overview of chemical principles and applications.

General Chemistry

With growing concerns over environmental issues and global energy consumption, there is increasing interest in nuclear power generation, despite its diminished role in the West over the last few decades. Many of those involved with nuclear power and environmental agencies see controlled...
expansion of nuclear plants as the most environmentally friendly way of meeting growing energy demands. Nuclear Renaissance: Technologies and Policies for the Future of Nuclear Power examines the future of nuclear power in the contexts of economics, environmental sustainability, and security of electricity supplies. A range of future technologies is considered, illustrating the technical challenges and opportunities facing nuclear power. This semi-technical overview of modern technologies meets the growing interest from scientists, environmentalists, and governments in the potential expansion of nuclear power. Various countries are starting to announce plans for new nuclear plants, either to replace those being decommissioned or to provide additional power. Many commentators regard this renaissance as just beginning. Nuclear Renaissance: Technologies and Policies for the Future of Nuclear Power is essential reading for physicists, engineers, policy-makers, researchers, energy analysts and graduate students in energy sciences, engineering and public policy.

Modern Experiments for Introductory College Chemistry

ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations.

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The Collected Works of Lars Onsager

Microencapsulation

Selected Solutions Manual for General Chemistry

Chemistry 2e

Conducting Polymer Electrodes for Thermogalvanic Cells

General Chemistry

Solutions Manual to Accompany General Chemistry with Qualitative Analysis, Second Edition

Nuclear Renaissance

El-Hi Textbooks in Print

Focus on critical contemporary issues as you examine engineering design and technologies within the context of models for managing systems' sustainability with ENVIRONMENTAL ENGINEERING AND SUSTAINABLE DESIGN, 2nd Edition. This best-selling invaluable resource, specifically designed for those studying engineering or applied environmental science, is updated with the latest developments and current, relevant case studies from across the globe. You learn how to incorporate sustainable practices into engineering design process, technological systems and the built environment. Expanded active learning exercises for each chapter guide you in applying theory to real situations. New chapters address developing issues and help bring sustainability science, environmental impact analysis and models of sustainability in engineering practice to the forefront.

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General Chemistry

Science Books & Films

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Microencapsulation has become a promising technology for new applications in fields like drug delivery, biosensing, biomaterials, catalysis, intelligent microstructures and microsystems, as well as in the field of consumer goods. This book is written by authors from academia and industry and aims to present industrial adoption of microcapsules as an innovative solution for problems concerning environmentally-friendly production methods, health protection, and increase of citizen daily life standard and decrease of its costs.

Chemistry

Recording for the Blind & Dyslexic, Catalog of Books

This volume contains the collected works of the eminent chemist and physicist Lars Onsager, one of the most influential scientists of the 20th Century. The volume includes Onsager's previously unpublished PhD thesis, a biography by H C Longuet-Higgins and M E Fisher, an autobiographical commentary, selected photographs, and a list of Onsager discussion remarks in print. Onsager's scientific achievements were characterized by deep insights into the natural sciences. His two best-known accomplishments are his reciprocal relations for irreversible processes, for which he received the 1968 Nobel Prize in Chemistry, and his explicit solution of the two-dimensional Ising model, a mathematical tour de force that created a sensation when it appeared. In addition, he made significant theoretical contributions to other fields, including electrolytes, colloids, superconductivity, turbulence, ice, electrons in metals, and dielectrics. In this volume, Onsager's contributions are divided into the following fields: irreversible processes; the Ising model; electrolytes; colloids; helium II and vortex quantization; off-diagonal long-range order and flux quantization; electrons in metal; turbulence; ion recombination; fluctuation theory; dielectrics; ice and water; biology; Mathieu functions. The different fields are evaluated by leading experts. The commentators are P W Anderson, R Askey, A Chorin, C Domb, R J Donnelly, W Ebeling, J-C Justice, H N W Lekkerkerker, P Mazur.
Environmental Engineering and Sustainable Design

Fossil fuels are still the dominant (ca. 80%) energy source in our society. A significant fraction is used to generate electricity with a heat engine possessing an efficiency of approximately 35%. Therefore, about 65% of fossil fuel energy is wasted in heat. Other primary heat sources include solar and geothermal energies that can heat up solid and fluids up to 150°C. The growing demand and severe environmental impact of energy systems provide an impetus for effective management and harvesting solutions dealing with waste heat. A promising way to use waste heat is to directly convert thermal energy into electrical energy by thermoelectric generators (TEGs). Solid state TEGs are electronic devices that generate electrical power due to the thermo-diffusion of electronic charge carriers in the semiconductor upon application of the thermal field. However, there is another type of thermoelectric device that has been much less investigated; this is the thermogalvanic cell (TGCs). The TGC is an electrochemical device that consists of the electrolyte solution including a reversible redox couple sandwiched between two electrodes. In our study, we focus on iron-based organometallic molecules in aqueous electrolyte. A temperature difference (???) between the electrodes promotes a difference in the electrode potentials (???(??)). Since the electrolyte contains a redox couple acting like electronic shuttle between the two electrodes, power can be generated when the two electrodes are submitted to a temperature difference. The focus of this thesis is (i) to investigate the possibility to use conducting polymer electrodes for thermogalvanic cells as an alternative to platinum and carbon-based electrodes, (ii) to investigate the role of viscosity of the electrolyte in order to consider polymer electrolytes, (iii) to understand the mechanisms limiting the electrical power output in TGCs; and (iv) to understand the fundamentals of the electron transfer taking place at the interface between the polymer electrode and the redox molecule in the electrolyte. These findings provide an essential toolbox for further improvement in conducting polymer thermogalvanic cells and various other emerging electrochemical technologies such as fuel cells, redox flow battery, dye-sensitized solar cells and industrial electrochemical synthesis.

General Chemistry

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

Russian Journal of General Chemistry

ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training, and active learning exercises in each chapter help students learn to apply theory to real world situations.

Ionic Liquids: Fundamentals, Applications and Environmental Impacts

Chemical Engineering: Fundamentals, Materials, and Systems

Thermodynamics

Recombination

Fluctuation Theory of water and mathematics

Thermal Energy: A First Text

Mathieu Functions and Other Topics

Reversible Processes

Electrolytes: Electrons in Metalloid Dielectric Solutions

Chimie générale : chimie des solutions

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Student Study Guide to Accompany Petrucci's General Chemistry, 3rd. Ed
The Education Index

The most trusted general chemistry text in Canada is back in a thoroughly revised 11th edition. General Chemistry: Principles and Modern Applications, is the most trusted book on the market recognized for its superior problems, lucid writing, and precision of argument and precise and detailed treatment of the subject. The 11th edition offers enhanced hallmark features, new innovations and revised discussions that that respond to key market needs for detailed and modern treatment of organic chemistry, embracing the power of visual learning and conquering the challenges of effective problem solving and assessment. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. Students, if interested in purchasing this title with MasteringChemistry, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MasteringChemistry, search for: 0134097327 / 9780134097329 General Chemistry: Principles and Modern Applications Plus MasteringChemistry with Pearson eText -- Access Card Package, 11/e Package consists of: 0132931281 / 9780132931281 General Chemistry: Principles and Modern Applications 0133387917 / 9780133387919 Study Card for General Chemistry: Principles and Modern Applications 0133387801 / 9780133387803 MasteringChemistry with Pearson eText -- Valuepack Access Card -- for General Chemistry: Principles and Modern Applications

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