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Process Intensification For Green Chemistry



Engineering Solutions for Sustainable Chemical Processing

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Green and Sustainable Chemistry and Engineering Concepcion Jimenez Gonzales, David J. C. Constable, 2025-09-17

The first textbook to fully integrate Green and Sustainable Chemistry and Engineering now in its second edition Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective Using an integrated systems oriented approach this invaluable single volume resource bridges the divide between chemistry process design and engineering as well as environment health safety and life cycle considerations This revised new edition discusses trends in chemical processing that can lead to more sustainable practices explores new methods in the design of greener chemical synthesis addresses sustainability challenges and implementation issues and more Up to date examples and new practical exercises based on the broad experience of the authors in applied and fundamental research corporate consulting and education are incorporated throughout the text Designed to advance green chemistry and green engineering as disciplines in the broader context of sustainability Green and Sustainable Chemistry and Engineering Illustrates the role of green and sustainable chemistry and engineering in the adoption of sustainable practices Describes the components of chemistry supporting the design of sustainable chemical reactions and reaction pathways Presents an approach to materials selection promoting the sustainability of chemical synthesis without diminishing efficiency Highlights key concepts that support the design of more sustainable chemical processes Provides background and context for placing a particular chemical process in the broader chemical enterprise Includes access to a companion website with a solutions manual and supplementary resources Green and Sustainable Chemistry and Engineering A Practical Design Approach Second Edition remains an ideal textbook for graduate and senior level courses in Chemistry and Chemical Engineering and an invaluable reference for chemists and engineers in manufacturing and R D especially those working in fine chemicals and pharmaceuticals

Green Chemistry and Engineering Concepción Jiménez-González, David J. C. Constable, 2011-04-12

The past present and future of green chemistry and green engineering From college campuses to corporations the past decade witnessed a rapidly growing interest in understanding sustainable chemistry and engineering Green Chemistry and Engineering A Practical Design Approach integrates the two disciplines into a single study tool for students and a practical guide for working chemists and engineers In Green Chemistry and Engineering the authors each highly experienced in implementing green chemistry and engineering programs in industrial settings provide the bottom line thinking required to not only bring sustainable chemistry and engineering closer together but to also move business towards more sustainable practices and products Detailing an integrated systems oriented approach that bridges both chemical syntheses and manufacturing processes this invaluable reference covers Green chemistry and green engineering in the movement towards sustainability Designing greener safer chemical synthesis Designing greener safer chemical manufacturing processes Looking beyond current processes to a lifecycle thinking perspective Trends in chemical processing that may lead to more

sustainable practices The authors also provide real world examples and exercises to promote further thought and discussion The EPA defines green chemistry as the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances Green engineering is described as the design commercialization and use of products and processes that are feasible and economical while minimizing both the generation of pollution at the source and the risk to human health and the environment While there is no shortage of books on either discipline Green Chemistry and Engineering is the first to truly integrate the two Introduction to Green Chemistry John Andraos,Albert S. Matlack,2022-03-09 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluororous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society *Green Chemistry and Engineering* Anne E. Marteel-Parrish,Martin A. Abraham,2013-11-11 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

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different concepts of and approaches to metrics are applied to fundamental problems in chemistry and the focus is firmly placed on their use to promote the development and implementation of more sustainable and green chemistry and technology in the production of chemicals and related products Starting with molecular design followed by chemical route evaluation chemical process metrics and product assessment by the end readers will have a complete set of metrics to choose from as they move a chemical conception to final product Of high interest to academics and chemists working in industry

Green Organic Chemistry and its Interdisciplinary Applications Vera M. Kolb, 2017-04-21 *Green Organic Chemistry and Its Interdisciplinary Applications* covers key developments in green chemistry and demonstrates to students that the developments were most often the result of innovative thinking Using a set of selected experiments all of which have been performed in the laboratory with undergraduate students it demonstrates how to optimize and develop green experiments The book dedicates each chapter to individual applications such as Engineering The chemical industry The pharmaceutical industry Analytical chemistry Environmental chemistry Each chapter also poses questions at the end with the answers included By focusing on both the interdisciplinary applications of green chemistry and the innovative thinking that has produced new developments in the field this book manages to present two key messages in a manner where they reinforce each other It provides a single and concise reference for chemists instructors and students for learning about green organic chemistry and its great and ever expanding number of applications

Environmental Engineering James R. Mihelcic, Julie B. Zimmerman, 2014-01-13 *Environmental Engineering Fundamentals Sustainability Design* presents civil engineers with an introduction to chemistry and biology through a mass and energy balance approach ABET required topics of emerging importance such as sustainable and global engineering are also covered Problems similar to those on the FE and PE exams are integrated at the end of each chapter Aligned with the National Academy of Engineering's focus on managing carbon and nitrogen the 2nd edition now includes a section on advanced technologies to more effectively reclaim nitrogen and phosphorous Additionally readers have immediate access to web modules which address a specific topic such as water and wastewater treatment These modules include media rich content such as animations audio video and interactive problem solving as well as links to explorations Civil engineers will gain a global perspective developing into innovative leaders in sustainable development

Flow Chemistry - Applications Ferenc Darvas, Volker Hessel, György Dorman, 2014-11-18 *Flow Chemistry* fills the gap in graduate education by covering chemistry and reaction principles along with current practice including examples of relevant commercial reaction separation automation and analytical equipment The Editors of *Flow Chemistry* are commended for having taken the initiative to bring together experts from the field to provide a comprehensive treatment of fundamental and practical considerations underlying flow chemistry It promises to become a useful study text and as well as reference for the graduate students and practitioners of flow chemistry Professor Klavs Jensen Massachusetts Institute of Technology USA Broader theoretical insight in driving a chemical reaction automatically opens the window

towards new technologies particularly to flow chemistry This emerging concept promotes the transformation of present day s organic processes into a more rapid continuous set of synthesis operations more compatible with the envisioned sustainable world These two volumes Fundamentals and Applications provide both the theoretical foundation as well as the practical aspects

100 questions and answers for job interview Offshore Drilling Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you ll see a general prognosis of the drilling process If you are new to the oil gas industry you ll enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you ll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations

Problem-Solving Exercises in Green and Sustainable Chemistry Albert S. Matlack, Andrew P. Dicks, 2015-11-05 When confronted with a problem in science the way to proceed is not always obvious The problem may seem intractable or there may be many possible solutions with some better than others Problem Solving Exercises in Green and Sustainable Chemistry teaches students how to analyze and solve real world problems that occur in an environmental context

The British National Bibliography Arthur James Wells, 2004

Environmental Chemistry Stanley E Manahan, 2022-06-19 With clear explanations real world examples and updated ancillary material the 11th edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science technology and chemistry The format and organization popular in preceding editions is used including an approach based upon the five environmental spheres and the relationship of environmental chemistry to the key concepts of sustainability industrial ecology and green chemistry The new edition provides a comprehensive view of key environmental issues and significantly looks at diseases and pandemics as an environmental problem influenced by other environmental concerns like climate change Features The most trusted and best selling text for environmental chemistry has been fully updated and expanded once again The author has preserved the basic format with appropriate updates including a comprehensive overview of key environmental issues and concerns New to this important text is material on the threat of pathogens and disease deadly past pandemics that killed millions recently emerged diseases and the prospects for more environment threats related to disease This outstanding legacy appeals to a wide audience and can also be an ideal interdisciplinary book for graduate students with degrees in a variety of disciplines other than chemistry New Long awaited companion website featuring additional ancillary material

Comprehensive Membrane Science and Engineering

Enrico Drioli, Lidietta Giorno, Enrica Fontananova, 2017-07-20 Comprehensive Membrane Science and Engineering Second Edition Four Volume Set is an interdisciplinary and innovative reference work on membrane science and technology. Written by leading researchers and industry professionals from a range of backgrounds, chapters elaborate on recent and future developments in the field of membrane science and explore how the field has advanced since the previous edition published in 2010. Chapters are written by academics and practitioners across a variety of fields including chemistry, chemical engineering, material science, physics, biology, and food science. Each volume covers a wide spectrum of applications and advanced technologies such as new membrane materials e.g. thermally rearranged polymers, polymers of intrinsic microporosity, and new hydrophobic fluoropolymer and processes e.g. reverse electrodialysis, membrane contractors, membrane crystallization, membrane condenser, membrane dryers, and membrane emulsifiers that have only recently proved their full potential for industrial application. This work covers the latest advances in membrane science, linking fundamental research with real-life practical applications using specially selected case studies of medium and large-scale membrane operations to demonstrate successes and failures with a look to future developments in the field. Contains comprehensive cutting-edge coverage helping readers understand the latest theory. Offers readers a variety of perspectives on how membrane science and engineering research can be best applied in practice across a range of industries. Provides the theory behind the limits, advantages, future developments, and failure expectations of local membrane operations in emerging countries.

Plastics and Sustainability Michael Tolinski, 2011-11-16 Clearly lays out the issues related to plastics effects on the environment while also serving as a practical, non-academic guide for making sustainability decisions about plastics recycling and the newest bio-based plastics. Company managers, product developers, policy makers, environmental researchers, and plastics industry engineers are under increasing pressure to find ways of minimizing the environmental footprint of plastic products. This accessible book is designed to help readers understand the life cycle impacts of various plastics, clarifying the technical research and practical arguments to show when bio-based and recycled plastics might be useful options for reducing the overall energy consumption, greenhouse gas emissions, and waste associated with traditional plastics. Plastics and Sustainability compares traditional fossil fuel-based plastics with bio-based plastics in terms of properties, environmental impacts, and costs, indicating what the most effective approaches could be for using recycled, biodegradable, or various bio-based materials. The book makes objective comparisons between bioplastics and all commonly used plastics, focusing on how they affect production, economics, product requirements, and retailer and consumer needs. It incorporates research concerning life cycle assessment, production techniques, and commercial applications and presents green guidelines about product design, recycling, processing efficiency, and material selection. The book also reports on recent industry developments and commercial trends in an effort to synthesize conclusions that are necessary for finding the right balance between bio-based and fossil fuel-based plastic products. Check out the author's blog at <http://www.plastech.biz/blog>

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