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By UL Lafayette Office of Communications and Marketing. The University of Louisiana at Lafayette has launched a new concentration for chemical engineering majors who envision care ...

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*UL Lafayette College of Engineering launches state's first bioengineering concentration*

Physical characterization of eco-friendly O/W emulsions developed through a strategy based on product engineering principles. AIChE Journal, Vol. 60, Issue. 7, p. 2644.

Bernardo, Fernando P. and ...

## *Chemical Product Design*

A new study shows that it is possible to use mechanical force to deliberately alter chemical reactions and increase chemical selectivity - a grand challenge of the field.

## *Chemical reactions break free from energy barriers using flyby trajectories*

Chemical engineering is a branch ... of the chemical processes and products, ensured safety and environmental protection, and efficient use of materials and energy. Numerous industries employ chemical ...

## *Chemical Engineering*

Goats are known to have a highly diverse community of microbes in their gut and can break down the toughest of plants. Understanding this unique ...

## *Goat guts may hold methane emission secrets*

Slimy layers of bacteria called biofilms can act as an environmentally-friendly glue to improve the strength of soil, according to a WSU study published in the journal Biofilm. Biofilms occur when

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*Researchers strengthen soil using environmentally-friendly bacterial 'glue'*  
Imagine sitting out in the sun, reading a digital screen as thin as paper, but seeing the same image quality as if you were indoors. Thanks to research from Chalmers University of Technology, Sweden, ...

*New Electronic Paper Displays Brilliant Colors With Minimum Energy Consumption*  
Examples include chemical products that are: Less hazardous (environmental ... ensure that award recipients are furthering the goals of green chemistry and/or green engineering. The Hancock Memorial ...

*Kenneth G. Hancock Memorial Award*  
(June 15, 2021) - Today, the U.S. Environmental Protection Agency (EPA) announced Colonial Chemical in South Pittsburg, Tennessee as one of five winners of the 2021 Green Chemistry Challenge Awards.

*EPA Selects Colonial Chemical of Tennessee as a 2021 Green Chemistry Challenge Award Winner*  
Begin your journey towards a challenging yet rewarding career in chemical engineering ... scale - providing the products and materials that we all need, from oil and gas to food and pharmaceuticals.

*MEng Chemical Engineering with Energy and Environment / Course details*

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The collaboration will provide UMass Lowell engineering ... or other hydrocarbon products within an hour. Purdue University in West Lafayette, IN, sent out a news item on June 15 that university ...

*Chemical Recycling: Can University Labs Succeed Where Privately Held Startups Continue to Struggle?*

Credit: Linda Coan O'Kresik / BDN A rush on disinfecting products at the start ... William DeSisto, a professor of chemical and biomedical engineering, was a chemical engineer with no particular ...

*UMaine chemical engineers want to make sure we never run out of disinfectant again*  
The Occupational Safety and Health Administration (OSHA) recently made substantial changes to its National Emphasis Program (NEP) for COVID-19 that the agency kicked off earlier this year, including ...

*OSHA Changes Focus of COVID NEP*

Affinity flow-through chromatography uses synthetic peptide ligands to cap-ture entire HCP spectrum in process fluids from common mammalian expres-sion systems.

*New Paradigm for Host Cell Protein Clearance*

"The innovative technologies we celebrate today are great examples of how ... by creating more sustainable products." EPA recognized the winners today during the

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virtual American Chemical Society ...

*EPA Announces Winners of the 2021 Green Chemistry Challenge Awards*

Eco Innovation Group, Inc. (OTC: ECOX) ("ECOX" or the "Company"), an innovative company aggregating investments in new technologies that promote environmental and social well-being and the advancement ...

*Eco Innovation Highlights Recent Coverage of Next-Gen Supercritical Plant Extraction Technology in Leading Engineering Publication*

"Colonial's Suga®Boost technology platform is an example of a decades ... Tuesday during the virtual American Chemical Society Green Chemistry and Engineering Conference.

*South Pittsburg's Colonial Chemical Is 2021 EPA Green Chemistry Challenge Award Winner*

One of the team members is engineer Josh Leonard, Ph.D., associate professor of chemical ... "Engineering a cell comes down to building a piece of DNA, which encodes a set of genes whose products ...

*Simulations guide rapid engineering of new functions in mammalian cells*

Chemical engineering is a branch ... of the chemical processes and products, ensured safety and environmental protection, and efficient use of materials and energy. Numerous industries employ chemical ...

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## *Chemical Engineering*

Imagine sitting out in the sun, reading a digital screen as thin as paper, but seeing the same image quality as if you were indoors. Thanks to research from Chalmers University of Technology, Sweden, ...

The chemical industry is changing, going beyond commodity chemicals to a palette of higher value added products. This groundbreaking book, now revised and expanded, documents this change and shows how to meet the challenges implied. Presenting a four-step design process - needs, ideas, selection, manufacture - the authors supply readers with a simple design template that can be applied to a wide variety of products. Four new chapters on commodities, devices, molecules/drugs and microstructures show how this template can be applied to products including oxygen for emphysema patients, pharmaceuticals like taxol, dietary supplements like lutein, and beverages which are more satisfying. For different groups of products the authors supply both strategies for design and summaries of relevant science. Economic analysis is expanded, emphasizing the importance of speed-to-market, selling ideas to investors and an expectation of limited time in the market. Extra examples, homework problems and a solutions manual are available.

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Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Industrial Chemical Process Analysis and Design uses chemical engineering principles to explain the transformation of basic raw materials into major chemical products. The book discusses traditional processes to create products like nitric acid, sulphuric acid, ammonia, and methanol, as well as more novel products like bioethanol and biodiesel. Historical perspectives show how current chemical processes have developed over years or even decades to improve their yields, from the discovery of the chemical reaction or physico-chemical principle to the industrial process needed to yield commercial

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quantities. Starting with an introduction to process design, optimization, and safety, Martin then provides stand-alone chapters—in a case study fashion—for commercially important chemical production processes. Computational software tools like MATLAB®, Excel, and Chemcad are used throughout to aid process analysis. Integrates principles of chemical engineering, unit operations, and chemical reactor engineering to understand process synthesis and analysis Combines traditional computation and modern software tools to compare different solutions for the same problem Includes historical perspectives and traces the improving efficiencies of commercially important chemical production processes Features worked examples and end-of-chapter problems with solutions to show the application of concepts discussed in the text

Ground-breaking text on chemical product design covering needs, ideas, selection, manufacture.

This book focuses on advances made in both materials science and scaffold development techniques, paying close attention to the latest and state-of-the-art research. Chapters delve into a sweeping variety of specific materials categories, from composite materials to bioactive ceramics, exploring how these materials are specifically designed

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for regenerative engineering applications. Also included are unique chapters on biologically-derived scaffolding, along with 3D printing technology for regenerative engineering. Features: Covers the latest developments in advanced materials for regenerative engineering and medicine. Each chapter is written by world class researchers in various aspects of this medical technology. Provides unique coverage of biologically derived scaffolding. Includes separate chapter on how 3D printing technology is related to regenerative engineering. Includes extensive references at the end of each chapter to enhance further study.

Until recently, the chemical industry has been dominated by the manufacture of bulk commodity chemicals such as benzene, ammonia, and polypropylene. However, over the last decade a significant shift occurred. Now most chemical companies devote any new resources to the design and manufacture of specialty, high value-added chemical products such as pharmaceuticals, cosmetics, and electronic coatings. Although the jobs held by chemical engineers have also changed to reflect this altered business, their training has remained static, emphasizing traditional commodities. This ground-breaking text starts to redress the balance between commodities and higher value-added products. It expands the scope of chemical engineering design to encompass both

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process design and product design. The authors use a four-step procedure for chemical product design - needs, ideas, selection, manufacture - drawing numerous examples from industry to illustrate the discussion. The book concludes with a brief review of the economic issues. Chemical engineering students and beginning chemical engineers will find this text an inviting introduction to chemical product design.

Offering invaluable insights from a chemist with over 35 years experience in the industry, this practical guide incorporates numerous practical examples and case studies to explain the concepts included here. The author explains the processes involved in product design, how to set up experiments, and ultimately how to scale-up. Among the host of topics covered is a discussion of recent advances in the fundamentals and innovative technologies leading to new and improved products. *Industrial Product Design of Solids and Liquids: A Practical Guide* is essential reading for the pharmaceutical, cosmetics and personal care, food, fragrance, paints, plastics and agricultural industries.

*Design and Development of Biological, Chemical, Food and Pharmaceutical Products* has been developed from course material from the authors' course in Chemical and Biochemical Product Design which has been running at the Technical University Denmark

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for years. The book draws on the authors' years of experience in academia and industry to provide an accessible introduction to this field, approaching product development as a subject in its own right rather than a sideline of process engineering. In this subject area, practical experience is the key to learning and this textbook provides examples and techniques to help the student get the best out of their projects. Design and Development of Biological, Chemical, Food and Pharma Products aims to aid students in developing good working habits for product development. Students are challenged with examples of real problems that they might encounter as engineers. Written in an informal, student-friendly tone, this unique book includes examples of real products and experiences from real companies to bring the subject alive for the student as well as placing emphasis on problem solving and team learning to set a foundation for a future in industry. The book includes an introduction to the subject of Colloid Science, which is important in product development, but neglected in many curricula. Knowledge of engineering calculus and basic physical chemistry as well as basic inorganic and organic chemistry are assumed. An invaluable text for students of product design in chemical engineering, biochemistry, biotechnology, pharmaceutical sciences and product development. Uses many examples and case studies drawn from a range of

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industries. Approaches product development as a subject in its own right rather than a sideline of process engineering Emphasizes a problem solving and team learning approach. Assumes some knowledge of calculus, basic physical chemistry and basic transport phenomena as well as some inorganic and organic chemistry.

Separation processes—or processes that use physical, chemical, or electrical forces to isolate or concentrate selected constituents of a mixture—are essential to the chemical, petroleum refining, and materials processing industries. In this volume, an expert panel reviews the separation process needs of seven industries and identifies technologies that hold promise for meeting these needs, as well as key technologies that could enable separations. In addition, the book recommends criteria for the selection of separations research projects for the Department of Energy's Office of Industrial Technology.

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