



Chemical Technology S

Johannes Rudolf Wagner



Chemical Technology S:

How to Commercialize Chemical Technologies for a Sustainable Future Timothy J. Clark, Andrew S. Pasternak, 2021-06-03

The definitive guide for scientific entrepreneurs commercializing sustainable technologies in the chemical sector Lacking the considerable resources of multinational chemical companies entrepreneurs face a unique set of risks and challenges How to Commercialize Chemical Technologies for a Sustainable Future is targeted at innovators who are embarking on the entrepreneurial path with their sustainable chemical technology but are unsure of what steps to take This first of its kind resource features contributions from a diverse team of expert authors including engineers venture capitalists marketing specialists intellectual property professionals regulatory experts industry practitioners and many others Accessible and highly practical this real world guide covers each step of the technology commercialization process from market landscape analysis and financing to scale up and strategic partnering Throughout the book effective tactics and strategies for growing a new venture are supported by case studies highlighting the economic and environmental impact of successful commercialization and identifying the common mistakes that lead to lost opportunities Filled with invaluable advice and actionable steps this book Uses valuation concepts tools and examples to demonstrate that for a chemical technology to be sustainable it must not only have market value but also confer benefits to human well being and the environment Offers templates and tools for understanding what customers need who the competition is and how to successfully differentiate your product to those customers Describes how to practically advance your technology from conception all the way to commercial demonstration Presents advantages and disadvantages of strategic partnering from the perspective of the start up and the larger industrial partner along with strategies to mitigate risks within a partnership Provides an overview of the legal regulatory requirements for bringing new chemicals to market in several key geographic regions as well as the impact of public policy on commercialization Offers insights and practical strategies on intellectual property management raising investment and operationalizing a startup company How to Commercialize Chemical Technologies for a Sustainable Future is essential reading for budding entrepreneurs in chemistry materials science and chemical engineering looking to bring their sustainable technologies to market It is also a valuable reference for investors policymakers regulators and other professionals

Chemical Technology F. A. Henglein, 2013-09-11 Chemical Technology is based on lectures the author gave at the Technische Hochschule of Karlsruhe and at the University of Freiburg Part 1 of this book deals with chemical technology and describes subjects dealing with apparatus unit operations and chemical economics The text reviews industrial chemical reactions raw materials preparation for reaction thermal and catalytic processes and a history of chemical technology This part also addresses transportation storage of raw materials and the design and construction of a chemical factory Part 2 concerns special chemical technology including topics such as raw material upgrading processing of products in the chemical industry and unit processes application toward consumer goods production This part reviews materials

sourcing from animals minerals and vegetables such as processing of products from living organisms the recovery of sugar starch and other carbohydrates The book also reviews products of the chemical industry including low molecular weight consumer goods detergents aromas explosives plastics elastomers synthetic leather textile and some building materials Chemistry students chemical and process technology students and mechanical engineering students with interest in chemistry will find this book valuable Chemical Technology Andreas Jess, Peter Wasserscheid, 2020-04-06 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field Clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well This new edition of Chemical Technology From Principles to Products features a new chapter illustrating the global economic map and its development from the 15th century until today and another on energy consumption in human history Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined Chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste The book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes Intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology Fully updated with new content on power to X and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering A Handbook of Chemical Technology Johannes Rudolf Wagner, 1872 **Encyclopedia of Chemical Technology, Laminated Wood-based Composites to Mass Transfer** Kirk-Othmer, 1981-04-28 Encyclopedia of Chemical Technology The Third Edition of the Encyclopedia of Chemical Technology is built on the solid foundation of the previous editions All of the articles have been rewritten and updated and many new subjects have been added to reflect changes in chemical technology through the 1980s The new edition however will be familiar to users of the earlier editions comprehensive authoritative accessible lucid The Encyclopedia remains an indispensable information source for all producers and users of chemical products and materials In the Third Edition emphasis is given to major present day topics of

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Chemical Technology, 2025-05-22 Chemical Technology offers a comprehensive overview of chemical processes and their applications in the mid 19th century This historical text provides insights into the state of industrial chemistry during a period of significant technological advancement Detailing various chemical operations and manufacturing techniques the book serves as a valuable resource for understanding the historical context of modern chemical engineering Explore the intricacies of early chemical technologies and gain a deeper appreciation for the evolution of the chemical industry This volume is essential for historians of science and technology chemists and anyone interested in the historical roots of chemical engineering This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

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Chemical Engineering and Chemical Process Technology - Volume V Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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