

Principles Of Sugar Technology Peter Honig

By far the most commonly encountered and energy-intensive unit operation in almost all industrial sectors, industrial drying continues to attract the interest of scientists, researchers, and engineers. The Handbook of Industrial Drying, Fourth Edition not only delivers a comprehensive treatment of the current state of the art, but also serves as a consultative reference for streamlining industrial drying operations. New to the Fourth Edition: Computational fluid dynamic simulation Solar, impingement, and pulse combustion drying Drying of fruits, vegetables, sugar, biomass, and coal Physicochemical aspects of sludge drying Life-cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential, the Handbook of Industrial Drying, Fourth Edition not only details the latest developments in the field, but also explains how improvements in dryer design and operation can increase energy efficiency and cost-effectiveness.

Data has emerged as a key component that determines how interactions across the world are structured, mediated and represented. This book examines these new data publics and the areas in which they become operative, via analysis of politics, geographies, environments and social media platforms. By claiming to offer a mechanism to translate every conceivable occurrence into an abstract code that can be endlessly manipulated, digitally processed data has caused conventional reference systems which hinge on our ability to mark points of origin, to rapidly implode. Authors from a range of disciplines provide insights into such a political economy of data capitalism; the political possibilities of techno-logics beyond data appropriation and data refusal; questions of visual, spatial and geographical organization; emergent ways of life and the environments that sustain them; and the current challenges of data publics, which is explored via case studies of three of the most influential platforms in the social media economy today: Facebook, Instagram and Whatsapp. Data Publics will be of great interest to academics and students in the fields of computer science, philosophy, sociology, media and communication studies, architecture, visual culture, art and design, and urban and cultural studies.

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.

Kinship and Property in Preindustrial China and England

Food Nanotechnology

Annual cumulation

Glucose Syrups

1965: January-June

Encyclopædia Britannica, Or, Dictionary of Arts, Sciences and General Literature

Noted teachers and scholars William J. Duiker and Jackson J. Spielvogel present a balanced, highly readable overview of world history that explores common challenges and experiences of the human past and identifies key patterns over time. Thorough coverage of political, economic, social, religious, intellectual, cultural, and military history is integrated into a chronological understanding of the distinctive character and development of individual cultures in society. This approach, with organization around seven major themes (Science and Technology, Art and Ideas, Family and Society, Politics and Government, Earth and the Environment, Religion and Philosophy, and Interaction and Exchange), helps students link events together in a broader contemporary world in a more meaningful historical context. Available in the following options: WORLD HISTORY, Eighth Edition (Chapters 1—30): Volume I: To 1800 (Chapters 1—18): Volume II: Since 1500 (Chapters 14—30). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advances in Energy Systems and Technology present the first volume of articles that provides a critical review of specific topics within the general field of energy. It discusses the technological issues in a broader systems context. It addresses the technical factors underlying energy developments. Some of the topics covered in the book are the introduction and development of nuclear energy, conversion, aerodynamics, sources of biomass, and the technologies used to obtain energy from biomass. The analysis of the ethanol fermentation is covered. The process of pyrolysis is discussed. The text describes the anaerobic digestion of organic substrates. The alcohol production from sugar cane is presented. A chapter is devoted to the fuel production from pyrolysis products to electric power and generation of geothermal energy. The book can provide useful information to scientists, engineers, students, and researchers.

This book provides a general technical and mechanical background for the basic processing machinery now used for making snacks, baked goods and confectionery. It covers the basic principles, machine design, function, operation and output.

Encyclopaedia Britannica

Advances in Energy Systems and Technology

Catalog

Principles and Applications

Or, Dictionary of Arts, Sciences, and General Literature

Scientific, Medical and Technical Books. Published in the United States of America

Advances in Enzymology and Related Areas of Molecular Biology is a seminal series in the field of biochemistry, offering researchers access to authoritative reviews of the latest discoveries in all areas of enzymology and molecular biology. These landmark volumes date back to 1941, providing an unrivaled view of the historical development of enzymology. The series offers researchers the latest understanding of enzymes, their mechanisms, reactions and evolution, roles in complex biological process, and their application in both the laboratory and industry. Each volume in the series features contributions by leading pioneers and investigators in the field from around the world. All articles are carefully edited to ensure thoroughness, quality, and readability. With its wide range of topics and long historical pedigree, Advances in Enzymology and Related Areas of Molecular Biology can be used not only by students and researchers in molecular biology, biochemistry, and enzymology, but also by any scientist interested in the discovery of an enzyme, its properties, and its applications.

Much has been written about globalization as an economic and political concept. The academic debate looks forward for explanations about the historical roots and development of this emerging phenomenon where the Nation-State's evolved into a system where nations are ruled by the dynamics of global interdependence.

Globalization in the new era is characterized as a process where geographical, political and cultural borders tend to dissolve. The Westphalia notion of sovereignty capitulates against the principle of political subordination as integration of local power ensuring national legitimacy.

Examines the question of whether providing work experience within courses of study in higher education affects entrepreneurial attitudes and behaviour, important given government imperatives to foster entrepreneurship through the education system.

Books in Print Supplement

Supplements

Storage Stability and Improvement of Intermediate Moisture Foods

Index to the Monthly Issues

New Technology-Based Firms in the New Millennium

The Increasing Role of Functional Imaging

Glucose syrups (commonly known as corn syrups in North America) arederived from starch sources such as maize, wheat and potatoes.Offering alternative functional properties to sugar as well aseconomic benefits, glucose syrups are extremely versatilesweeteners, and are widely used in food manufacturing and otherindustries. They are a key ingredient in confectionery products,beer, soft drinks, sports drinks, jams, sauces and ice creams, aswell as in pharmaceuticals and industrial fermentations. This book brings together all the relevant information on themanufacture and use of glucose syrups. Drawing on fortyyears' experience in the international glucose industry, theauthor provides a valuable reference for all those involved in theprocessing and buying of these syrups, and for scientists involvedin the manufacture of a full range of food (and some non-food)products in which the syrups are ingredients. The emphasis is onpractical information – recipes are included where relevant in theapplications chapters, and appendices offer commonly-usedcalculations and useful data. Food technologists can use the bookto make choices about the most suitable glucose syrup to use in aparticular application, and also to adapt recipes in order toreplace sugar (sucrose) or other ingredients. A glossary of termsreflecting the international terminology of the industry completesthe book.

After many years of research, award-winning historian Hugh Thomas portrays, in a balanced account, the complete history of the slave trade. Beginning with the first Portuguese slaving expeditions, he describes and analyzes the rise of one of the largest and most elaborate maritime and commercial ventures in all of history. Between 1492 and 1870, approximately eleven million black slaves were carried from Africa to the Americas to work on plantations, in mines, or as servants in houses. The Slave Trade is alive with villains and heroes and illuminated by eyewitness accounts. Hugh Thomas's achievement is not only to present a compelling history of the time but to answer as well such controversial questions as who the traders were, the extent of the profits, and why so many African rulers and peoples willingly collaborated. Thomas also movingly describes such accounts as are available from the slaves themselves.

An ideal text for radiation oncologists, hematologist-oncologists, and radiologists, **Image-Guided Radiotherapy and Functional Imaging in Modern Lymphoma Management** is the foremost source for information on the increasingly important subject of image guided radiation therapy (IGRT) and its crucial role in the clinical evolution of high-precision ionizing beam therapy. An understanding of IGRT allows clinicians to improve targeting accuracy and safely increase dosage administration without increasing toxicity in normal, healthy tissue areas, resulting in better lymphoma patient outcomes.

Public Plurality in an Era of Data Determinacy

British Books in Print

Advances in Enzymology and Related Areas of Molecular Biology

AF Press Clips

Monthly Catalog of United States Government Publications, Cumulative Index

Social Justice and Agricultural Innovation

World-wide losses of crops, post-harvest, through microbial action,pests, diseases and other types of spoilage amount to millions oftons every year. This essential handbook is the first in athree-volume series which covers all factors affecting post-harvestquality of all major fruits, vegetables, cereals and other crops.Compiled by members of the world-renowned Natural ResourcesInstitute at the University of Greenwich, Chatham, UK, thecomprehensive contents of this landmark publication encourageinteractions between each sector of the agricultural community in order to improve food security, food safety and food quality intoday's global atmosphere. Through the carefully compiled and edited chapters,internationally respected authors discuss ways to improve harvestyield and quality, drawing on their many years' practicalexperience and the latest research findings, applications andmethodologies. Subjects covered include: an introduction to thesystems used in post-harvest agricultural processes, physical andbiological factors affecting post-harvest commodities, storageissues, pest management, food processing and preservation, foodsystems, the latest research and assimilation of this work, andcurrent trade and international agreements. An invaluable glossaryshowing important pests, pathogens and plants is alsoincluded. Crop Post-Harvest: Science and Technology Volume 1: Principlesand Practice is a must-have reference book which offers the readeran overview of the globalisation of post-harvest science,technology, economics, and the development of the storage andhandling of perishable and durable products. Volumes 2 and 3 willgo on to explore durables and perishables individually in moredetail, with many case studies taken from around the globe. This 3-volume work is the standard handbook and reference forall professionals involved in the harvesting, shipping, storage andprocessing of crops, including agricultural and plant scientists,food scientists and technologists, microbiologists, plantpathologists, entomologists and all post harvest, shipping andstorage consultants. Libraries in all universities and researchestablishments where these subjects are studied and taught shouldhave multiple copies on their shelves

Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

Nanotechnology offers great potential to revolutionize conventional food science and the food industry. The use of nanotechnology in the food industry promises improved taste, flavor, color, texture, and consistency of foodstuffs and increased absorption and bioavailability of nutraceuticals. Food Nanotechnology: Principles and Applications examines the current state of nanoscale phenomena and processes, benefits and risks of nanotechnology. This work contains 18 chapters particularly focused on the design, production, and utilization of nanoparticles, with specific applications for the food industry. Through several studies, it has been proven that nanotechnology can offer distinct advantages over conventional methods in terms of functionality, targeted delivery of food bioactive compounds, improved food quality characteristics like texture, taste, sensory attributes and improved stability in the gastrointestinal tract, and controlled release profiles. Features Offers clear and concise coverage on application of nanotechnology in nutrient delivery, food packaging, and pathogen/pesticide detection Addresses both the technological aspects of delivering nano-based food products and the societal implications that affect take-up Covers broad range of topics including nanoemulsification, electrospraying, nanocomposites, plasma processing, and nanosensors Discusses different formulation and preparation methods for loading food bioactive compounds Exploratory in nature, this book presents the latest of such data on all aspects of applications of nanotechnology in food systems. With its practical focus on the fabrication and application of nanotechnology in food, this book is a valuable resource for students, researchers, food process engineers.

A Selected List of Titles in Print

Phase 3 ; National Aeronautics and Space Administration, Food and Nutrition Office

Chemical Technology

The Slave Trade

Catalog of Copyright Entries. Third Series

National Library of Medicine Current Catalog

Addresses concerns that the New Europe faces at the eve of the Third Millennium and a decade after the fall of communist rule.

Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition of this encyclopedia. Large portions of the reference have required comprehensive rewriting and new illustrations. Scores of new topics have been included to create this thoroughly updated eighth edition. The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half-century ago in 1938 Van Nostrand's Scientific Encyclopedia. First Edition, was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway. The early encyclopedia was well received by students and educators alike during critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level. A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions. The pioneering VNSE met these criteria and

continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives.

Tying together cultural history, legal history, and institutional economics, *The Laws and Economics of Confucianism: Kinship and Property in Pre-Industrial China and England* offers a novel argument as to why Chinese and English pre-industrial economic development went down different paths. The dominance of Neo-Confucian social hierarchies in Late Imperial and Republican China, under which advanced age and generational seniority were the primary determinants of sociopolitical status, allowed many poor but senior individuals to possess status and political authority highly disproportionate to their wealth. In comparison, landed wealth was a fairly strict prerequisite for high status and authority in the far more 'individualistic' society of early modern England, essentially excluding low-income individuals from secular positions of prestige and leadership. Zhang argues that this social difference had major consequences for property institutions and agricultural production.

Including Related Teaching Materials K-12

The Laws and Economics of Confucianism

Image-Guided Radiation Therapy in Lymphoma Management

Supplement 1-, Cumulative Index

The Story of the Atlantic Slave Trade: 1440-1870

Annotated Bibliography of the Literature on Resource Sharing Computer Networks

Includes subject section, name section, and 1968-1970, technical reports.

Employing a social justice framework, this book examines the effects of innovation incentives and policies in agriculture. It addresses access to the objects of innovation, the direction of science and the type of innovations that are available, opportunities to participate in research and development, as well as effects on future generations. The book examines the potential value of preventive and reconciliatory measures, drawing on concepts from procedural and restorative justice. As such it offers a comprehensive analysis of the main social justice dimensions affected by agricultural innovation. It gives academics and policy analysts an extensive overview of the deep impact of innovation on society and the environment, and the expectations the general public has from the scientific community.

Includes history of bills and resolutions.

Data Publics

Technology and Applications

Handbook of Industrial Drying, Fourth Edition

Solar Energy Update

El-Hi Textbooks & Serials in Print, 2005

Proceedings and Debates of the ... Congress