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Recent Advances in Biosensor Technology: Volume 1 Jan 29 2023 Recent Advances in Biosensor Technology (Volume 1) is a comprehensive guide to the latest developments in biosensor technology, written by experts in bioengineering and biosensor development. The book is an essential resource for researchers and biomedical engineers interested in the latest developments in biosensor technology. It covers a wide range of topics, including nanomaterials for biosensing applications, carbon-based nanomaterials for sensing applications, graphene-based nanomaterials, SPR-based biosensors in diagnostics and therapeutics, biosensors for cancer diagnosis and therapeutics, tissue engineering and more. One of the key features of this book is its detailed discussion of the novel research findings in biosensor technology, providing readers with the most up-to-date information in the field. Each chapter includes a comprehensive review of relevant literature, as well as practical examples to demonstrate the potential applications of biosensors in various fields. Furthermore, this book includes detailed references for further reading, making it an excellent resource for readers looking to deepen their understanding of biosensor technology.

Chemical Engineering and Chemical Process Technology - Volume VI Jul 31 2020 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.

Chemical Engineering and Chemical Process Technology - Volume II Apr 19 2022 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.

Modern Drying Technology, Volume 4 Jan 05 2021 This five-volume series provides a comprehensive overview of all important aspects of modern drying technology, concentrating on the transfer of cutting-edge research results to industrial use. Volume 4 deals with the reduction of energy demand in various drying processes and areas, highlighting the following topics: Energy analysis of dryers, efficient solid-liquid separation techniques, osmotic dehydration, heat pump assisted drying, zeolite usage, solar drying, drying and heat treatment for solid wood and other biomass sources, and sludge thermal processing.

Past and Present in DeNO_x Catalysis: From Molecular Modelling to Chemical Engineering Mar 26 2020 This book offers an overview of the state of the art in the field of DeNO_x catalysis in order to focus novel orientations, new technological developments, from laboratory to industrial scale. A particular attention has been paid towards the implementation of catalytic processes for minimising NO_x emissions either from stationary or mobile sources under lean condition to meet future standard regulations of NO_x emissions. In the first part of this book, critical aspects reported in the literature which usually make difficult the achievement of efficient catalytic technologies in those conditions are summarised and analysed in order two separate new perspectives. The second part deals with fundamental aspects at molecular level. A better understanding of the reactions involved under unsteady-state conditions is probably a pre-requisite step for improving the performances of the actual processes or developing original ones. The development of powerful in situ spectroscopic techniques is of fundamental interest for kinetic modelling. Correlations between spectroscopic and kinetic data with those obtained from theoretical calculations are reported. Some illustrations emphasise the fact that these comparisons may help in determining the nature of the catalytic active sites and building predictive tools for simulations under running conditions. The latter part of this book will be illustrated by different practical approaches covering various aspects related to the catalysts preparation and the development of alternative technologies which include industrial considerations. - New technological developments for investigating catalytic reactions in transient conditions (in situ and operando spectroscopic techniques) - Concerted approaches in DeNO_x catalysis - How academic aspects (kinetic, in situ spectroscopic measurements) can provide useful information for practical applications - Comparison of different approaches provided by academic and industrial partners

History of Technology Oct 14 2021 The technical problems confronting different societies and periods and the measures taken to solve them form the concern of this annual collection of essays. It deals with the history of technical discovery and change and explores the relationship of technology to other aspects of life - social, cultural and economic - showing how technological development has shaped, and been shaped by, the society in which it occurred.

Decision of the Administrator of the Environmental Protection Agency Regarding Suspension of the 1975 Auto Emission Standards May 28 2020

HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY -Volume I Aug 31 2020 History and Philosophy of Science and Technology is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on History and

Philosophy of Science and Technology in four volumes covers several topics such as: Introduction to the Philosophy of Science; The Nature and Structure of Scientific Theories Natural Science; A Short History of Molecular Biology; The Structure of the Darwinian Argument In The Origin of Species; History of Measurement Theory; Episodes of XX Century Cosmology: A Historical Approach; Philosophy of Economics; Social Sciences: Historical And Philosophical Overview of Methods And Goals; Introduction to Ethics of Science and Technology; The Ethics of Science and Technology; The Control of Nature and the Origins of The Dichotomy Between Fact And Value; Science and Empires: The Geo-Epistemic Location of Knowledge; Science and Religion; Scientific Knowledge and Religious Knowledge - Significant Epistemological Reference Points; Thing Called Philosophy of Technology; Transitions from Function-Oriented To Effect-Oriented Technologies. Some Thought on the Nature of Modern Technology; Technical Agency and Sources of Technological Pessimism These four volumes are aimed at a broad spectrum of audiences: University and College Students, Educators and Research Personnel.

History of Technology Jan 17 2022 The technical problems confronting different societies in different periods and the measures taken to solve them form the concern of this annual collection of essays. Dealing with the history of technical discovery and change, the volumes in this series explore the relationship of technology to other aspects of life-social, cultural and economic-and show how technological development has shaped, and been shaped by, the society in which it has occurred.

History of Technology Feb 15 2022 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, History of Technology also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY -Volume IV Oct 02 2020 History and Philosophy of Science and Technology is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on History and Philosophy of Science and Technology in four volumes covers several topics such as: Introduction to the Philosophy of Science; The Nature and Structure of Scientific Theories Natural Science; A Short History of Molecular Biology; The Structure of the Darwinian Argument In The Origin of Species; History of Measurement Theory; Episodes of XX Century Cosmology: A Historical Approach; Philosophy of Economics; Social Sciences: Historical And Philosophical Overview of Methods And Goals; Introduction to Ethics of Science and Technology; The Ethics of Science and Technology; The Control of Nature and the Origins of The Dichotomy Between Fact And Value; Science and Empires: The Geo-Epistemic Location of Knowledge; Science and Religion; Scientific Knowledge and Religious Knowledge - Significant Epistemological Reference Points; Thing Called Philosophy of Technology; Transitions from Function-Oriented To Effect-Oriented Technologies. Some Thought on the Nature of Modern Technology; Technical Agency and Sources of Technological Pessimism These four volumes are aimed at a broad spectrum of audiences: University and College Students, Educators and Research Personnel.

Realizability Aug 12 2021 Aimed at starting researchers in the field, Realizability gives a rigorous, yet reasonable introduction to the basic concepts of a field which has passed several successive phases of abstraction. Material from previously unpublished sources such as Ph.D. theses, unpublished papers, etc. has been molded into one comprehensive presentation of the subject area. - The first book to date on this subject area - Provides an clear introduction to Realizability with a comprehensive bibliography - Easy to read and mathematically rigorous - Written by an expert in the field

The Control Handbook (three volume set) May 09 2021 At publication, The Control Handbook immediately became the definitive resource that engineers working with modern control systems

required. Among its many accolades, that first edition was cited by the AAP as the Best Engineering Handbook of 1996. Now, 15 years later, William Levine has once again compiled the most comprehensive and authoritative resource on control engineering. He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields. Now expanded from one to three volumes, *The Control Handbook, Second Edition* brilliantly organizes cutting-edge contributions from more than 200 leading experts representing every corner of the globe. They cover everything from basic closed-loop systems to multi-agent adaptive systems and from the control of electric motors to the control of complex networks. Progressively organized, the three volume set includes: Control System Fundamentals Control System Applications Control System Advanced Methods Any practicing engineer, student, or researcher working in fields as diverse as electronics, aeronautics, or biomedicine will find this handbook to be a time-saving resource filled with invaluable formulas, models, methods, and innovative thinking. In fact, any physicist, biologist, mathematician, or researcher in any number of fields developing or improving products and systems will find the answers and ideas they need. As with the first edition, the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances.

Particle Formation with Supercritical Fluids Jan 23 2020 Particle formation with supercritical fluids is a promising alternative to conventional precipitation processes as it allows the reduction of particle size and control of morphology and particle size distribution without degradation or contamination of the product. The book comprehensively examines the current status of research and development and provides perspectives and insights on promising future directions. The introduction to high pressure and high temperature phase equilibria and nucleation phenomena provides the basic principles of the underlying physical and chemical phenomena, allowing the reader an understanding of the relationship between process conditions and particle characteristics. Bridging the gap between theory and application, the book imparts the scientific and engineering fundamentals for innovative particle formation processes. The interdisciplinary "modus operandi" will encourage cooperation between scientists and researchers from different but complementary disciplines. Focuses on the general principles of particle formation in supercritical fluids Considers high pressure and high temperature phase equilibria, fluid dynamics and nucleation theory Discusses the underlying physical and chemical phenomena needed to understand the different applications, pointing out the relationship between process conditions and product properties

Advances in Energy, Environment and Chemical Engineering Volume 1 Jun 09 2021 *Advances in Energy, Environment and Chemical Engineering* collects papers resulting from the conference on Energy, Environment and Chemical Engineering (AEECE 2022), Dali, China, 24-26 June, 2022. The primary goal is to promote research and developmental activities in energy technology, environment engineering and chemical engineering. Moreover, it aims to promote scientific information interchange between scholars from the top universities, business associations, research centers and high-tech enterprises working all around the world. The conference conducts in-depth exchanges and discussions on relevant topics such as energy engineering, environment technology and advanced chemical technology, aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of saving technologies, environmental chemistry, clean production and so on. By sharing the research status of scientific research achievements and cutting-edge technologies, it helps scholars and engineers all over the world comprehend the academic development trend and broaden research ideas. So as to strengthen international academic research, academic topics exchange and discussion, and promote the industrialization cooperation of academic achievements.

History of Technology Oct 26 2022 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and

change, History of Technology also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

Advances in Food Science and Technology, Volume 1 Jul 23 2022 Written in a systematic and comprehensive manner, the book reports recent advances in the development of food science and technology areas. Advances in Food Science and Technology discusses many of the recent technical research accomplishments in the areas of food science and technology, such as food security as a global issue, food chemistry, frozen food and technology, as well as state-of-the-art developments concerning food production, properties, quality, trace element speciation, nanotechnology, and bionanocomposites for food packing applications. Specifically, this important book details: New innovative methods for food formulations and novel nanotechnology applications such as food packaging, enhanced barrier, active packaging, and intelligent packaging Freezing methods and equipment such as freezing by contact with cold air, cold liquid, and cold surfaces, cryogenic freezing, and a combination of freezing methods Chemical and functional properties of food components Bionanocomposites for natural food packing and natural biopolymer-based films such as polysaccharide films and protein films Regulatory aspects of food ingredients in the United States with the focus on the safety of enzyme preparations used in food

THE DESALINATION PROCESSES SITE SELECTION, LAYOUT AND CIVIL WORKS - Volume I Apr 07 2021 This volume is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The volume presents state-of-the art subject matter of various aspects of The Desalination Processes Site Selection, Layout and Civil Works such as: Site selection, Design Guidelines of Seawater Intake Systems, Water Intakes by Wells And Infiltration Galleries, Effluent Discharge Using Boreholes and Ponds, Effluent Discharge Using Boreholes and Ponds, Overall Site Layout, MSF Plant Layout, Reverse Osmosis Plant Layout, Electrodialysis Plant Layout, Civil Engineering in Desalination Plants, Mechanical Vibration Insulation, Wind Design, Durability and Repair of Reinforced Concrete In Desalination Plants, Link to Power Station, Disposal and Recirculation of Saline Water. This volume is aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy and Decision Makers.

Decision of the Administrator of the Environmental Protection Agency Regarding Suspension of the 1975 Auto Emission Standards: June 26 and 27, 1973 Apr 27 2020

History of Technology Nov 14 2021 Technical standards have received increasing attention in recent years from historians of science and technology, management theorists and economists. Often, inquiry focuses on the emergence of stability, technical closure and culturally uniform modernity. Yet current literature also emphasizes the durability of localism, heterogeneity and user choice. This collection investigates the apparent tension between these trends using case studies from across the nineteenth and twentieth centuries. The History of Technology addresses tensions between material standards and process standards, explores the distinction between specifying standards and achieving convergence towards them, and examines some of the discontents generated by the reach of standards into 'everyday life'. Includes the Special Issue "By whose standards? Standardization, stability and uniformity in the history of information and electrical technologies"

Modern Drying Technology, Volume 2 Feb 03 2021 This five-volume handbook provides a comprehensive overview of all important aspects of modern drying technology, including only cutting-edge results. Volume 2 comprises experimental methods used in various industries and in research in order to design and control drying processes, measure moisture and moisture distributions, characterize particulate material and the internal micro-structure of dried products, and investigate the behavior of particle systems in drying equipment. Key topics include acoustic levitation, near-infrared spectral imaging, magnetic resonance imaging, X-ray tomography, and positron emission tracking.

Advances in Food and Nutrition Research Mar 07 2021 *Advances in Food and Nutrition Research*, Volume 81 provides updated knowledge on nutrients in foods and how to avoid deficiencies, paying special attention to the essential nutrients that should be present in the diet to reduce disease risk and optimize health. The series provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits, as well as up-to-date information on food science, including raw materials, production, processing, distribution, and consumption. Contains contributions that have been carefully selected based on their vast experience and expertise on the subject Includes updated, in-depth, and critical discussions of available information, giving the reader a unique opportunity to learn Encompasses a broad view of the topics at hand

Science and Technology in World History, Volume 4 Jun 21 2022 The history of science is a story of human discovery--intertwined with religion, philosophy, economics and technology. The fourth in a series, this book covers the beginnings of the modern world, when 16th-century Europeans began to realize that their scientific achievements surpassed those of the Greeks and Romans. Western Civilization organized itself around the idea that human technological and moral progress was achievable and desirable. Science emerged in 17th-century Europe as scholars subordinated reason to empiricism. Inspired by the example of physics, men like Robert Boyle began the process of changing alchemy into the exact science of chemistry. During the 18th century, European society became more secular and tolerant. Philosophers and economists developed many of the ideas underpinning modern social theories and economic policies. As the Industrial Revolution fundamentally transformed the world by increasing productivity, people became more affluent, better educated and urbanized, and the world entered an era of unprecedented prosperity and progress.

Emerging Web Services Technology Volume III Jul 11 2021 This third volume on Emerging Web Services Technologies follows the current - search activities in the areas of Web Services and Service Oriented Architectures. It includes the proceedings of the 3 Workshop on Emerging Web Services Technology 2008 (WEWST'08), which was colocated with the 6 European Conference on Web Services (ECOWS'08) and took place in November 2008 in Dublin, Ireland. In addition, this volume features three papers from the ECOWS'08 business track. WEWST focuses on research contributions advancing the state of the art in Web Services technologies. The main goal of the WEWST workshop is to serve as a forum for providing early exposure and much needed feedback to grow and establish original and emerging ideas within the Web Services community. The wide variety of tools, techniques, and technological solutions presented in WEWST share one common feature - they advance the current Web Services research in new directions by introducing new, sometimes controversial ideas into the field. As such, WEWST is the natural extension to the main ECOWS conference. For this edition of WEWST, we accepted 6 full papers and 3 short papers. We would like to thank the paper authors for their submissions and for their contribution to the timely preparation of these proceedings, as well as for their presentations and lively discussions during the workshop. At the same time, we would like to thank our Program Committee for their work and for submitting the reviews on time. Last but not least, we would like to thank the ECOWS conference organizers for their help organizing a successful workshop.

Fischer-Tropsch Technology May 01 2023 Fischer-Tropsch Technology is a unique book for its state-of-the-art approach to Fischer Tropsch (FT) technology. This book provides an explanation of the basic principles and terminology that are required to understand the application of FT technology. It also contains comprehensive references to patents and previous publications. As the first publication to focus on theory and application, it is a contemporary reference source for students studying chemistry and chemical engineering. Researchers and engineers active in the development of FT technology will also find this book an invaluable source of information. * Is the first publication to cover the theory and application for modern Fischer Tropsch technology * Contains comprehensive knowledge on all aspects relevant to the application of Fischer Tropsch technology * No other publication looks at past, present and future applications

Chromatography and Separation Science Mar 19 2022 The basic objectives of this book are to: provide basic information on chromatography and separation science; show how simple extraction and partition processes provide the basis for development of chromatography and separation science; describe the role of chromatography and separation science in various fields; discuss the role of chromatography and separation science in development of new methodology; and present new evolving methods and how to select an optimum method. · The book covers the fundamental physical and chemical phenomena involved in separations · Provides a concise overview of the basics of transport phenomena and thermodynamics · Shows the importance of chromatography within separation science

Pollution Control Technologies - Volume III Jun 29 2020 Pollution Control Technologies is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Pollution Control Technologies focuses largely concerned with strategies for pollution reduction, and pollution prevention if at all possible, using scientific and technological methods. Focusing primarily but not exclusively on air pollution, the Theme is written in simple English, avoiding both mathematical and chemical equations as far as possible to facilitate effective and widest possible dissemination. The content of the Theme provides the essential aspects and a myriad of issues of great relevance to our world such as: Control of Particulate Matter in Gaseous Emissions; Control of Gaseous Emissions; Pollution Control through Efficient Combustion Technology; Pollution Control in Industrial Processes; Pollution Control in Transportation, which are then expanded into multiple subtopics, each as a chapter. These three 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

Artificial Intelligence Research and Development Feb 24 2020 "We propose that a 2 month, 10 man study of artificial intelligence be carried out during the summer of 1956 at Dartmouth College in Hanover, New Hampshire. The study is to proceed.... Last year the 50th anniversary of the Dartmouth AI project proposal by McCarthy, Minsky, Rochester and Shannon was celebrated. Years later, and following similar traditions of a number of AI associations, a call was launched in 1997 by the Catalan Association for Artificial Intelligence (ACIA) to organize an annual conference to promote synergies in the research community of its influence, the seeder for the 1st Catalan Conference on Artificial Intelligence (CCIA98) which took place in Tarragona on October 1998. The editors of this book are very glad to celebrate the 10th anniversary of the International Conference of the ACIA (CCIA07) in Sant Juli de Lria (Andorra), October 25-26th, 2007. The good health of the Catalan AI community and its influence area is witnessed by the representative selection of papers gathered in this book and presented at CCIA07. The book is organized according to the different areas in which the papers were distributed for their presentation during the conference, namely: Constraint Satisfaction, Agents, Data Processing, Case-Based Reasoning, Computer Vision, Natural Language Processing, Uncertainty and Fuzziness, Robotics, and Applications. The editors believe that all the papers collected in this volume can be of interest to any computer scientist or engineer interested in AI."

Hydata Dec 24 2019

History of Technology Dec 16 2021 The technical problems confronting different societies and periods and the measures taken to solve them form the concern of this annual collection of essays. It deals with the history of technical discovery and change and explores the relationship of technology to other aspects of life - social, cultural and economic - and shows how technological development has shaped, and been shaped by, the society in which it occurred. Volume 27 includes a special issue on The Professional Identity of Engineers: Historical and Contemporary Issues.

CRISPR in Animals and Animal Models Sep 24 2022 CRISPR in Animals and Animal Models, Volume 152, the latest release in the Progress in Molecular Biology and Translational Science series, explores the genome editing CRISPR system in cells and animal models, its applications, the uses of

the CRISPR system, and the past, present and future of CRISPR genome editing. Topics of interest in this updated volume include a section on CRISPR history, The genome editing revolution, Programming CRISPR and its applications, CRISPR Delivery methods, CRISPR libraries and screening, CRISPR investigation in haploid cells, CRISPR in the generation of transgenic animals, CRISPR therapeutics, and Promising strategies and present challenges. Accessible to students and researchers alike Written by leading authorities in the field

History of Technology Mar 31 2023 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, *History of Technology* also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

History of Technology Volume 21 Sep 12 2021 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, *History of Technology* also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

Annual Review of Information Science & Technology: Volume 41 May 21 2022 ARIST, published annually since 1966, is a landmark publication within the information science community. It surveys the landscape of information science and technology, providing an analytical, authoritative, and accessible overview of recent trends and significant developments. The range of topics varies considerably, reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives. While ARIST continues to cover key topics associated with classical information science (e.g., bibliometrics, information retrieval), editor Blaise Cronin is selectively expanding its footprint in an effort to connect information science more tightly with cognate academic and professional communities.

Fischer-Tropsch Technology; Studies in Surface Science and Catalysis Feb 27 2023

History of Technology Volume 30 Nov 26 2022 This book focuses on the development of four key issues in the development of modern Spain; knowledge, manufacturing, energy and telecommunications, and public works. If technology transfer from advanced nations to less developed systems always worked, then the whole world would now be rich. That this is not the case is so obvious, we might well expect that the history of the processes, successes and failures of technology transfer across nations would be a very well-established field of enquiry. In fact, the theme is still a developing one, and the present Special Issue centres on the case of Spain as exemplary in many respects. The collected essays focus upon the four major themes of knowledge, manufacturing, energy, and telecommunications and public works. Essays range in time from the 18th century to the present time, from studies of espionage and early links between craftsmen and savants, to the institutions of technology (from training systems, to private enterprise activity, or patents), to case-studies of silk manufacture, shipbuilding, mining, paper-making, and pharmaceuticals. Each essay offers a broad variety of material to bring to bear on a major problem of world development, past, present, and future.

History of Technology Volume 20 Dec 04 2020 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, *History of Technology* also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

[Ceramics Science and Technology, Volume 4](#) Nov 02 2020 Although ceramics have been known to mankind literally for millennia, research has never ceased. Apart from the classic uses as a bulk material in pottery, construction, and decoration, the latter half of the twentieth century saw an explosive growth of application fields, such as electrical and thermal insulators, wear-resistant bearings, surface coatings, lightweight armour, and aerospace materials. In addition to plain, hard solids, modern ceramics come in many new guises such as fabrics, ultrathin films, microstructures and hybrid composites. Built on the solid foundations laid down by the 20-volume series *Materials Science and Technology*, *Ceramics Science and Technology* picks out this exciting material class and illuminates it from all sides. Materials scientists, engineers, chemists, biochemists, physicists and medical researchers alike will find this work a treasure trove for a wide range of ceramics knowledge from theory and fundamentals to practical approaches and problem solutions.

[History of Technology Volume 10](#) Aug 24 2022 The technical problems confronting different societies and periods, and the measures taken to solve them form the concern of this annual collection of essays. Volumes contain technical articles ranging widely in subject, time and region, as well as general papers on the history of technology. In addition to dealing with the history of technical discovery and change, *History of Technology* also explores the relations of technology to other aspects of life -- social, cultural and economic -- and shows how technological development has shaped, and been shaped by, the society in which it occurred.

Kirk-Othmer Encyclopedia of Chemical Technology, Volume 15 Dec 28 2022 The fifth edition of the Kirk-Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions, which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernisation of the content to reflect changes and developments in chemical technology. Presenting a wide scope of articles on chemical substances, properties, manufacturing, and uses; on industrial processes, unit operations in chemical engineering; and on fundamentals and scientific subjects related to the field. The Encyclopedia describes established technology along with cutting edge topics of interest in the wide field of chemical technology, whilst uniquely providing the necessary perspective and insight into pertinent aspects, rather than merely presenting information. * Set began publication in January 2004 * Over 1,000 articles * More than 600 new or updated articles * 27 volumes

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