

Industrial Pigging Technology Fundamentals Components Applications

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Materials Evaluation 2004

Enzymes in Human and Animal Nutrition

Carlos Simões Nunes 2018-03-15 Enzymes in Human and Animal Nutrition is a detailed reference on enzymes covering detailed information on all relevant aspects fundamental for final use of enzymes in human and animal nutrition. Topics explored include selection, engineering and expression of microbial enzymes, effects of probiotics on enzymes in the digestive tract, potential new sources of enzymes, valorization of plant biomass by food and feed enzymes. Economics and intellectual property issues are also examined. Examines the role of enzymes in nutrition and in the production of food and animal feed so that food industry and academic researchers can understand applications of enzymes in the health of humans and animals Begins with a thorough overview of selection, engineering and expression of microbial enzymes Examines extremophile organisms as a potential new source of enzymes Includes discussion of analytics, economics and intellectual property to increase applicability of the rest of the book outside of the lab

Hadoop: The Definitive Guide Tom White 2015-03-25 Get ready to unlock the power of your data. With the fourth edition of this comprehensive guide, you'll learn how to build

and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run Hadoop clusters. Using Hadoop 2 exclusively, author Tom White presents new chapters on YARN and several Hadoop-related projects such as Parquet, Flume, Crunch, and Spark. You'll learn about recent changes to Hadoop, and explore new case studies on Hadoop's role in healthcare systems and genomics data processing. Learn fundamental components such as MapReduce, HDFS, and YARN Explore MapReduce in depth, including steps for developing applications with it Set up and maintain a Hadoop cluster running HDFS and MapReduce on YARN Learn two data formats: Avro for data serialization and Parquet for nested data Use data ingestion tools such as Flume (for streaming data) and Sqoop (for bulk data transfer) Understand how high-level data processing tools like Pig, Hive, Crunch, and Spark work with Hadoop Learn the HBase distributed database and the ZooKeeper distributed configuration service

Oil and Gas Pipeline Fundamentals John L. Kennedy 1993 Industry expert John Kennedy details the oil and gas pipeline operation industry in this complete text. Contents: Pipeline industry overview Types of pipelines Pipe manufacture and coating Fundamentals of

pipeline design Pumps and compressors Prime movers Construction practices and equipment Welding techniques and equipment Operation and control Metering and storage Maintenance and repair Inspection and rehabilitation Pipeline regulation Safety and environmental protection Tommorrow's technology. (Amazon)

Legal Protection for Computer-

Implemented Inventions Sabine Kruspig

2016-04-24 As a result of the incorporation of computer software into countless commercial and industrial products, the patentability of software has become a vital issue in intellectual property law. This indispensable book provides an overview on the current status of computer-implemented inventions in patent law across Europe and major jurisdictions worldwide. A hugely practical field research tool with guidance based on case law, it examines the major hurdles in each particular country and describes the best practice to be adopted. Clearly showing how enforceable software patent applications can be competitively drafted and how a patent portfolio for computer-implemented inventions can be established in several countries without spending money unnecessarily on problematic examination proceedings, this book covers such issues and topics as the following: • claim categories for patent applications; • sufficient level of abstraction/breadth of the claimed invention; • fundamental terms of computing and terminological traps; • probability for patents dependent on software application areas; and • patents in core areas of computing. With separate chapters for the key countries, Germany, the United Kingdom, France, the United States, China, Korea, Japan, India, and the European Patent Office the legal situation for computer-implemented inventions in each country or region, this book includes guidance on prosecution under national law, analyses of relevant court decisions, practice checklists, and an outlook on future developments.. The authors describe claim formulation based on actual cases and on principles of computer science in order to show what might be or might not be patentable in each jurisdiction. With this incomparable resource, patent attorneys and patent professionals in companies will get a basis for making decisions about the most

appropriate jurisdictions in which to file patent applications. This book will also be of great value to computer professionals who are affected by the protection of software or who are actively involved in the protection of software by patent law.

Materials Research Centres Cartermill International Limited 1986

Handbook of Hygiene Control in the Food Industry H. L. M. Lelieveld 2016-06-10

Handbook of Hygiene Control in the Food Industry, Second Edition, continues to be an authoritative reference for anyone who needs hands-on practical information to improve best practices in food safety and quality. The book is written by leaders in the field who understand the complex issues of control surrounding food industry design, operations, and processes, contamination management methods, route analysis processing, allergenic residues, pest management, and more. Professionals and students will find a comprehensive account of risk analysis and management solutions they can use to minimize risks and hazards plus tactics and best practices for creating a safe food supply, farm to fork. Presents the latest research and development in the field of hygiene, offering a broad range of the microbiological risks associated with food processing Provides practical hygiene related solutions in food facilities to minimize foodborne pathogens and decrease the occurrence of foodborne disease Includes the latest information on biofilm formation and detection for prevention and control of pathogens as well as pathogen resistance

Applied Mechanics Reviews 1988

Contamination Control in the Natural Gas Industry Thomas H. Wines 2021-11-25

Contamination Control in the Natural Gas Industry delivers the separation fundamentals and technology applications utilized by natural gas producers and processors. This reference covers principles and practices for better design and operation of a wide range of media, filters and systems to remove contaminants from liquids and gases, enabling gas industry professionals to fulfill diverse fluid purification requirements. Packed to cover practical technologies, diagnostics and troubleshooting methods, this book provides gas engineers and

technologists with a critical first-ever reference geared to contamination control. Covers contamination control methods and equipment specific to the natural gas industry Includes guidelines on fundamentals and real-world technologies used today Gives engineers better design and operation with rating methods, standards and case histories

Using the Engineering Literature Bonnie A. Osif 2006-08-23 The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession. Using the Engineerin *New Scientist* 1960-01-28 *New Scientist* magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, *New Scientist* reports, explores and interprets the results of human endeavour set in the context of society and culture.

The Handbook of Advanced Materials James K. Wessel 2004-04-27 Written to educate readers about recent advances in the area of new materials used in making products. Materials and their properties usually limit the component designer. * Presents information about all of these advanced materials that enable products to be designed in a new way * Provides a cost effective way for the design engineer to become acquainted with new materials * The material expert benefits by being aware of the latest development in all these areas so he/she can focus on further improvements

Sci-tech News 2004

The Handbook of Sidescan Sonar Philippe Blondel 2010-05-17 Sidescan sonar is proving to be the preeminent technique for researchers and professionals seeking knowledge about the structure and behavior of the seafloor, but its data is often difficult to interpret due to the physics of acoustic remote sensing, and to the varied geological processes at play. This book covers the fundamentals of sidescan sonar, incorporates new understanding of marine

structures, and explains how to interpret sidescan sonar imagery and bathymetry.

Japanese Technical Abstracts 1988

RubberTech China '98 Teleorder 1998

Introduction to Sensors for Electrical and Mechanical Engineers Martin Novák 2020-08-17

Sensors are all around us. They are in phones, cars, planes, trains, robots, mills, lathes, packaging lines, chemical plants, power plants, etc. Modern technology could not exist without sensors. The sensors measure what we need to know and the control system then performs the desired actions. When an engineer builds any machine he or she needs to have basic understanding about sensors. Correct sensors need to be selected for the design right from the start. The designer needs to think about the ranges, required accuracy, sensor cost, wiring, correct installation and placement etc. Without the basic knowledge of sensors fundamental no machine can be built successfully today. The objective of this book is to provide the basic knowledge to electrical and mechanical engineers, engineering students and hobbyist from the field of sensors to help them with the selection of "proper" sensors for their designs. No background knowledge in electrical engineering is required, all the necessary basics are provided. The book explains how a sensor works, in what ranges it can be used, with what accuracy etc. It also provides examples of industrial application for selected sensors. The book covers all the major variables in mechanical engineering such as temperature, force, torque, pressure, humidity, position, speed, acceleration etc. The approach is always as follows: - Explain how the sensor works, what is the principle - Explain in what ranges and with what accuracy it can work - Describe its properties with charts, eventually equations - Give examples of such sensors including application examples

Advances in Design, Simulation and

Manufacturing II Vitalii Ivanov 2019-06-06 This book reports on topics at the interface between manufacturing, mechanical and chemical engineering. It gives special emphasis to CAD/CAE systems, information management systems, advanced numerical simulation methods and computational modeling techniques, and their use in product design,

industrial process optimization and in the study of the properties of solids, structures, and fluids. Control theory, ICT for engineering education as well as ecological design, and food technologies are also among the topics discussed in the book. Based on the 2nd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2019), held on June 11-14, 2019, in Lutsk, Ukraine, the book provides academics and professionals with a timely overview and extensive information on trends and technologies behind current and future developments of Industry 4.0, innovative design and renewable energy generation. *Annual Report of the Commission on Industrial Education* Massachusetts. Commission on Industrial Education 1907

Department of Agriculture: Appropriations for 1962 United States. Congress. House. Committee on Appropriations 1961

Book Review Index 2005 Every 3rd issue is a quarterly cumulation.

German books in print 2002

Optical Gyros and Their Application 1999 *Fünfter ITG-Workshop Photonische Aufbau- und Verbindungstechnik* Ulrich H. P. Fischer-Hirchert 2007

The British National Bibliography Arthur James Wells 2003

Materials Research Centres Mitchell 1989

Research in the Steel Industry 1987

The Software Encyclopedia 1988

Industrial Pigging Technology Gerhard Hiltcher 2006-12-13 Pigs are snug-fitting plugs which are able to perform various maintenance tasks such as cleaning or removing deposits or blockages in pipe and pipeline systems from the inside. A gaseous or liquid propellant is used to push the pig through the system. This strategy avoids rinsing loss of valuable product, provides reduction of adverse environmental impacts, and gains high efficiency for less investment. The book describes clearly and methodically the important basic equipment required for the planning and design of pigging units. Many practical examples are shown for the operation of industrial pigging units, drawn from the authors' longtime experience in this technology. In this form and scope the book is an unrivaled presentation of this technology. Engineers and chemists who plan, construct, operate and

maintain production plants in the chemical, food, cosmetics, pharmaceutical and petrochemical industry will find an invaluable source of advice and reference for pigging units.

Using the Engineering Literature, Second Edition Bonnie A. Osif 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award-winning first edition of *Using the Engineering Literature* used a roadmap analogy, we now need a three-dimensional analysis reflecting the complex and dynamic nature of research in the information age. *Using the Engineering Literature, Second Edition* provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes. Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.

Forthcoming Books Rose Army 2003-04

Enzymes and Coenzymes—Advances in Research and Application: 2012 Edition

2012-12-26 *Enzymes and Coenzymes—Advances in Research and Application: 2012 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Enzymes and Coenzymes. The editors have built *Enzymes and Coenzymes—Advances in Research and Application: 2012 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Enzymes and Coenzymes in this eBook to be deeper than

what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Enzymes and Coenzymes—Advances in Research and Application: 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

CASTING TECHNOLOGY AND CAST ALLOYS

A. K. CHAKRABARTI 2005-01-01 This text emphasizes the underlying metallurgical principles of casting technology so that the students can develop a sound set of analytic skills, helpful in the development of improved casting processes and products. The pictorial and diagrammatic support provided throughout reinforces the clarity of the text for a thorough understanding of the metal casting concepts and technologies. Besides comprehensive coverage of the casting processes and elaborate discussion of properties of cast irons, cast steels, and cast nonferrous alloys, the text also familiarizes the students with the most recent developments in binder systems, casting practices, solidification processing, metal filtration, metallurgy of cast alloys, alloy design, and energy and environment management. The book is primarily designed for degree and diploma students pursuing courses in metallurgical, mechanical, and production engineering disciplines as well as for candidates studying for Associate Membership Examinations (AMIIM, AMIE, Grad. IIF). It would also benefit M.Tech./M.E. students specializing in foundry technology and allied disciplines.

1981 DOE Authorization United States. Congress. House. Committee on Science and Technology 1980

Arming the Confederacy Robert C. Whisonant 2015-02-21 This is a fresh look at the American Civil War from the standpoint of the natural resources necessary to keep the armies in the field. This story of the links between minerals, topography, and the war in western Virginia now

comes to light in a way that enhances our understanding of America's greatest trial. Five mineral products - niter, lead, salt, iron, and coal - were absolutely essential to wage war in the 1860s. For the armies of the South, those resources were concentrated in the remote Appalachian highlands of southwestern Virginia. From the beginning of the war, the Union knew that the key to victory was the destruction or occupation of the mines, furnaces, and forges located there, as well as the railroad that moved the resources to where they were desperately needed. To achieve this, Federal forces repeatedly advanced into the treacherous mountainous terrain to fight some of the most savage battles of the War.

Clean Ironmaking and Steelmaking

Processes Pasquale Cavaliere 2019-07-18 This book describes the available technologies that can be employed to reduce energy consumption and greenhouse emissions in the steel- and ironmaking industries. Ironmaking and steelmaking are some of the largest emitters of carbon dioxide (over 2Gt per year) and have some of the highest energy demand (25 EJ per year) among all industries; to help mitigate this problem, the book examines how changes can be made in energy efficiency, including energy consumption optimization, online monitoring, and energy audits. Due to negligible regulations and unparalleled growth in these industries during the past 15-20 years, knowledge of best practices and innovative technologies for greenhouse gas remediation is paramount, and something this book addresses. Presents the most recent technological solutions in productivity analyses and dangerous emissions control and reduction in steelmaking plants; Examines the energy saving and emissions abatement efficiency for potential solutions to emission control and reduction in steelmaking plants; Discusses the application of the results of research conducted over the last ten years at universities, research centers, and industrial institutions.

Books in Print Supplement 2002

Scientific and Technical Aerospace Reports 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific

and Technical Information Database.

Juran's Quality Handbook: The Complete

Guide to Performance Excellence 6/e Joseph

A. Defeo 2010-09-05 The definitive quality management compendium--revised for the first time in a decade For more than 50 years, Juran's Quality Handbook has been the singular essential reference to quality management and engineering. The Sixth Edition--the first revision of the Handbook in 10 years--forges a new standard in tools for quality. Bringing leaders, managers, master and black belts, and engineers the most up-to-date methods, research, and tools, under the guidance of a team of the world's top experts, this authoritative resource shows how to apply universal methods for delivering superior results and organizational

excellence in any organization, industry, country, or process. Juran's Quality Handbook, sixth edition covers: Leadership--what everyone needs to know about managing for superior quality and results Methods--the most effective methods and tools for attaining superior results, such as Lean, Six Sigma, Root Cause Analysis, Continuous Innovation, and more Industry applications--effectively applying quality management The roles of key functions--such as quality professionals, research and development, supply chain, and governance--and what they must carry out to attain superior results in an organization Performance excellence--pragmatic roadmaps, templates, and tools to aid in developing an effective and sustainable performance excellence system

Hydrocarbon Processing 1988