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A Comparison of British and American Foundry Practice
CRC Press

One of the most urgent problems facing the world today is environmental sustainability. Current practices of pollution control, waste treatment, and environmental protection are not only hugely expensive and a burden on development but also unsustainable in the long run for their steady depletion of the world's natural resources. Any solutions must have proven economic benefits, be technologically viable, and meet prevailing environmental and social perspectives. The main objective of this new set of studies is to describe methods that help to protect the environment and conserve natural resources. This can be achieved by applying the 'cradle-to-cradle' concept, which aims to use materials in closed cyclic loops without generating any type of waste or pollution. The authors provide the reader with an introduction to basic concepts of sustainable development, describe the mechanisms and benefits of related technologies, and suggest potential uses on a practical level by examining innovations developed in the mechanical engineering laboratories of the American University in Cairo. Particular focus is placed on innovation as a vital means of attaining sustainability. A timely contribution to the debate on environmentally sustainable practices, this book will be indispensable to environmentalists, scientists, economists, engineers, development specialists, and policy-makers, as well as being of interest to the lay reader.

Bits on Chips Artech House Publishers

What makes this book unique is a specific focus on aluminum recovery, rather than just recycling in general. It also offers an integrated discussion of scrap recovery and re-melting operations and includes economic as well as technical elements of recycling. Important topics include a discussion of the scrap aluminum marketplace and how secondary aluminum is collected and sorted, the design and operation of furnaces for melting scrap, the refining of molten aluminum, and the recovery and processing of dross from re-melting operations. This second edition features more information on aluminum scrap pricing and the economics of recycling, the analysis of dross processing methods currently in use by the industry, and drosses produced. The book has been updated throughout to include the most up-to-date information.

Practical Time Series Analysis Springer Nature

Each chapter of Professor Cambell's new book Castings Practice will take a look at one of his 10 rules. It is to be expected that the Rules will one day be taken as an outline or blueprint for an international specification on the methods for making reliable castings. John Cambell has over two decades of experience in the casting industry and is the author of over 40 technical papers and patents. He has become well-known in the foundry industry as the originator of the Cosworth casting process, which is becoming accepted throughout the world as a new production process for the casting of cylinder heads and blocks. He is now Federal Mogul Professor of Casting Technology at the University of Birmingham. * Must-follow rules of castings, from one of the world's leading experts * Companion volume to the renowned book 'Castings' * Accessible and direct, provides essential information for students of metallurgy and foundry professionals alike

Law Librarianship in the Twenty-First Century Stephen Chastain

Imagine fuel without fear. No climate change. No oil spills, no dead coalminers, no dirty air, no devastated lands, no lost wildlife. No energy poverty. No oil-fed wars, tyrannies, or terrorists. No leaking nuclear wastes or spreading nuclear weapons. Nothing to run out. Nothing to cut off. Nothing to worry about. Just energy abundance, benign and affordable, for all, forever. That richer, fairer, cooler, safer world is possible, practical, even profitable—because saving and replacing fossil fuels now works better and costs no more than buying and burning them.

Reinventing Fire shows how business-motivated by profit, supported by civil society, sped by smart policy—can get the US completely off oil and coal by 2050, and later beyond natural gas as well. Authored by a world leader on energy and innovation, the book maps a robust path for integrating real, here-and-now, comprehensive energy solutions in four industries—transportation, buildings, electricity, and manufacturing—melding radically efficient energy use with reliable, secure, renewable energy supplies. Popular in tone and rooted in applied hope, Reinventing Fire shows how smart businesses are creating a potent, global, market-driven, and explosively growing movement to defossilize fuels. It points readers to trillions in savings over the next 40 years, and trillions more in new business opportunities. Whether you care most about national security, or jobs and competitive advantage, or climate and environment, this major contribution by world leaders in energy innovation offers startling innovations will support your values, inspire your support, and transform your sense of possibility. Pragmatic citizens today are more interested in outcomes than motives. Reinventing Fire answers this trans-ideological call. Whether you care most about national security, or jobs and competitive advantage, or climate and environment, its startling innovations will support your values, inspire your support, and transform your sense of possibility.

Proceedings of the National Conference on Investment Casting
5starcooks

First published in 1958, Salvato's Environmental Engineering has long been the definitive reference for generations of sanitation and environmental engineers. Approaching its 50th year of continual publication in a rapidly changing field, the Sixth Edition has been fully reworked and reorganized into three separate, succinct volumes to adapt to a more complex and scientifically demanding field with dozens of specializations. Updated and reviewed by leading experts in the field, this revised edition offers new coverage of industrial solid wastes utilization and disposal, the use of surveying in environmental engineering and land use planning, and environmental assessment. Stressing the practicality and appropriateness of treatment, the Sixth Edition provides realistic solutions for the practicing public health official or environmental engineer. This volume, Environmental Health and Safety for Municipal Infrastructure, Land Use and Planning, and Industry, Sixth Edition, covers: Municipal and industrial waste and pollution including landfills and facility, office and residential sanitation, and air quality The environmental health of residential and institutional spaces such as homes and offices, including indoor air quality, sanitation, and the impact of substandard construction techniques Land use planning and forensic techniques for investigating repurposed industrial and agricultural land Air pollution and noise control Surveying and mapping for environmental engineering

Metal Casting <https://www.chinesestandard.net>

GB/T-2015, GB-2015 -- Chinese National Standard PDF-English, Catalog (year 2015) <https://www.chinesestandard.net>

Canadian Defence Policy in Theory and Practice Elsevier

This book provides readers with a broad overview of integrated circuits, also generally referred to as micro-electronics. The presentation is designed to be accessible to readers with limited, technical knowledge and coverage includes key aspects of integrated circuit design, implementation, fabrication and application. The author complements his discussion with a large number of diagrams and photographs, in order to reinforce the explanations. The book is divided into two parts, the first of which is specifically developed for people with almost no or little technical knowledge. It presents an overview of the electronic evolution and discusses the similarity between a chip floor plan and a city plan, using metaphors to help explain concepts. It includes a summary of the chip development cycle, some basic definitions and a variety of applications that use integrated circuits. The second part digs deeper into the details and is perfectly suited for professionals working in one of the semiconductor disciplines who want to broaden their semiconductor horizon.

Environmental Engineering Packt Publishing Ltd

Building on his decades of experience as a consultant and project manager in the automotive industry, the author develops

comprehensive and pragmatic recommendations for action regarding the digital transformation of the automotive and supplier industries. At the heart is the transition from a vehicle-focused to a mobility-oriented business model. Based on the catalysts of the digital change, four digitization fields are structured, and a roadmap for their transformation is presented. The topics of comprehensive change in corporate culture and an agile and efficient information technology are covered in detail as vital success factors. Selected practical examples of innovative digitization projects provide additional ideas and impulses. An outlook on the automotive industry in the year 2040 completes the discourse.

Aluminum Recycling, Second Edition Springer Nature
Contributed papers presented at the conference held at Central Mechanical Engineering Research Institute, Durgapur.

Emerging Technologies for Librarians Elsevier

Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies. Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features.

Coverage encompasses the general categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperature studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources

Complete Casting Handbook John Wiley & Sons

In This Book, The Topics/Syllabus Adequately Cover Metal Casting Subject In The Courses Of Mechanical, Production And Metallurgy Branches For B.E., B.Tech. As Well As Production And Industrial Metallurgy For M.Tech. With His Direct Experience In Metal Casting Industry And Teaching Academics The Author Attempts To Bridge The Gap Existing Between Essential Theory In Books And Vital Practical Applications In Industry. It Contains All The Molding Processes Normally Used With Details Of Ingredient Testing, Different Stages Of Casting Production Essential Theory Of Gating And Riser, As Well As Finishing, Inspection And Quality Control. Over 80 Line Sketches Facilitate Easy Understanding. Information Given Through Over 20 Tables Help Easy Comprehension, Comparison And Remembrance. Exhaustive Examples Of Specific Components Normally Made By Casting Process Help To Build Confidence When Entering Industry. Over 200 Technical Books And Research Papers Upto May 1996 Are Referred. Examples Of Working Computer Programs Given, Form The Basis For Modern Practice-Oriented Projects In Final Year. For Practising Engineers, Managers And Entrepreneurs, This Book Provides Useful Theory And Practical Aspects On Foundry Management. Exhaustive Treatment Of Critical Gating & Riser With Many Industry Examples, Practical Solutions To Melting Problems, Casting Defects Analysis Through Cause-Effect Diagrams Will Be Very Useful. Essential Information. On Energy Conservation And Environmental Pollution Control Is Also Given In The Last Chapter.

3rd International Conference on Innovative Technologies for Clean and Sustainable Development CRC Press

Emerging Technologies for Librarians: A Practical Approach to Innovation focuses on the practical applications of emerging technologies in libraries, defining the technologies in the context of their use in real situations. Each chapter includes an overview of the use of emerging technologies in a particular work area that is followed by a list of relevant applications. Chapters cover work areas such as advertising, distance learning, metadata, and digital libraries, and also focus on applications, including mobile computing and web conferencing, followed by a conclusion.

This book serves as a guide for those interested in learning about, and implementing, the available technologies that enhance library services, and also lists and discusses the types of emerging technologies that are available for a specific area of work. Discusses and reviews practical applications of emerging technologies for librarians Explores what emerging technologies are available in particular areas of library services Describes and evaluates applications Connects library work to innovations
Second National Conference on Management Science and Practice, March 9-11, 2007 Allied Publishers

How do you say hello in Arabic? Explore the pages of this Arabic English picture dictionary to learn new words and phrases. Colorful photographs and simple labels make learning Arabic easy.

Cloud Foundry A Complete Guide - 2020 Edition Newnes

Step by Step guide filled with real world practical examples. About This Book Get your first experience with data analysis with one of the most powerful types of analysis—time-series. Find patterns in your data and predict the future pattern based on historical data. Learn the statistics, theory, and implementation of Time-series methods using this example-rich guide Who This Book Is For This book is for anyone who wants to analyze data over time and/or frequency. A statistical background is necessary to quickly learn the analysis methods. What You Will Learn Understand the basic concepts of Time Series Analysis and appreciate its importance for the success of a data science project Develop an understanding of loading, exploring, and visualizing time-series data Explore auto-correlation and gain knowledge of statistical techniques to deal with non-stationarity time series Take advantage of exponential smoothing to tackle noise in time series data Learn how to use auto-regressive models to make predictions using time-series data Build predictive models on time series using techniques based on auto-regressive moving averages Discover recent advancements in deep learning to build accurate forecasting models for time series Gain familiarity with the basics of Python as a powerful yet simple to write programming language In Detail Time Series Analysis allows us to analyze data which is generated over a period of time and has sequential interdependencies between the observations. This book describes special mathematical tricks and techniques which are geared towards exploring the internal structures of time series data and generating powerful descriptive and predictive insights. Also, the book is full of real-life examples of time series and their analyses using cutting-edge solutions developed in Python. The book starts with descriptive analysis to create insightful visualizations of internal structures such as trend, seasonality and autocorrelation. Next, the statistical methods of dealing with autocorrelation and non-stationary time series are described. This is followed by exponential smoothing to produce meaningful insights from noisy time series data. At this point, we shift focus towards predictive analysis and introduce autoregressive models such as ARMA and ARIMA for time series forecasting. Later, powerful deep learning methods are presented, to develop accurate forecasting models for complex time series, and under the availability of little domain knowledge. All the topics are illustrated with real-life problem scenarios and their solutions by best-practice implementations in Python. The book concludes with the Appendix, with a brief discussion of programming and solving data science problems using Python. Style and approach This book takes the readers from the basic to advance level of Time series analysis in a very practical and real world use cases.

Chelsea Green Publishing

Papers presented at the conference held at Indian Institute of Technology, Madras in 2007.

The Practical Handbook of Internet Computing John Wiley & Sons

The Foseco Ferrous Foundryman's Handbook is a practical reference book for all those concerned with making castings in any of the commonly used alloys, by any of the usual moulding methods. International SI units are used throughout, but in almost all cases conversions to the more familiar Metric and Imperial units are given. Wherever possible, Casting Alloy Specifications include equivalent specifications for several countries as well as international specifications. Individual chapters cover the casting of light alloys, copper-based alloys, all types of cast-iron and steel. For each group of alloys, specifications and typical applications are described, together with details of melting practice, metal treatment and casting practice. Sand moulding materials, including green sand and chemically bonded sands are also included.

Green Supply Chain Management for Sustainable Business Practice New Age International

Stay one step ahead of the competition with this expert review of the most impactful and disruptive business trends coming down the pike Far from slowing down, change and transformation in business seems to come only at a more and more furious rate. The last ten years alone have seen the introduction of groundbreaking new trends that pose new opportunities and challenges for leaders in all industries. In Business Trends in Practice: The 25+ Trends That Are Redefining Organizations, best-selling business author and strategist Bernard Marr breaks down the social and technological forces underlying these rapidly advancing changes and the impact of those changes on key industries. Critical consumer trends just emerging today—or poised to emerge tomorrow—are discussed, as are strategies for rethinking your organisation's product and service delivery. The book also explores: Crucial business operations trends that are changing the way companies conduct themselves in the 21st century The practical insights and takeaways you can glean from technological and social innovation when you cut through the hype Disruptive new technologies, including AI, robotic and business process automation, remote work, as well as social and environmental sustainability trends Business Trends in Practice: The 25+ Trends That Are Redefining Organizations is a must-read resource for executives, business leaders and managers, and business development and innovation leads trying to get — and stay — on top of changes and disruptions that are right around the corner.

Reinventing Fire IGI Global

Law Librarianship in the 21st Century, a text for library and information science courses on law librarianship, introduces students to the rapidly evolving world of law librarianship. With no prior knowledge of the law required, students using this book will find practical answers to such questions as: What is law librarianship? How do you become a law librarian? How does law librarianship interrelate with the legal world? Individual chapters provide a concise treatment of such specialized topics as the history of law librarianship, international law, and government documents. Standard topics are dealt with as they apply to the law library, including collection development, public services, technical processing, administration, technology, and consortia. The textbook also includes an explanation of the common acronyms and special terminology needed to

work in a law library. This new edition updates the text throughout and adds two new chapters.

Interoperability in Healthcare Information Systems: Standards, Management, and Technology Chandos Publishing

Most industrial and hazardous waste management resources cover the major industries and provide conventional in-plant pollution control strategies. Until now however, no book or series of books has provided coverage that includes the latest developments in innovative and alternative environmental technology, design criteria, managerial decision met

Foundry Technology Springer

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to re-design their operations more effectively. Green Supply Chain Management for Sustainable Business Practice examines the challenges and benefits of implementing sustainability into the core functions of contemporary enterprises, focusing on how green approaches improve operations in an ecological way. Highlighting key concepts, emerging innovations, and future directions, this book is a pivotal reference source for professionals, managers, educators, and upper-level students.