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Comprehensive information for the American aluminium industry Collective effort of 53 recognized experts on aluminium and aluminium alloys Joint venture by world renowned authorities-the Aluminium Association Inc. and American Society for Metals. The completely updated source of information on aluminium industry as a whole rather than its individual contributors. this book is an opportunity to gain from The knowledge of the experts working for prestigious companies such as Alcoa, Reynolds Metals Co., Alcan International Ltd., Kaiser Aluminium & Chemical Corp., Martin Marietta Laboratories and Anaconda Aluminium Co. It took four years of diligent work to complete this comprehensive successor to the classic volume, Aluminium, published by ASM in 1967. Contents: Properties of Pure Aluminum Constitution of Alloys Microstructure of Alloys Work Hardening Recovery, Recrystallization and Growth Metallurgy of Heat Treatment and General Principles of Precipitation Hardening Effects of Alloying Elements and Impurities on Properties Corrosion Behaviour Properties of Commercial Casting Alloys Properties of Commercial Wrought Alloys Aluminum Powder and Powder Metallurgy Products.

International Who's who of Professionals John Wiley & Sons

Energy - in the headlines, discussed controversially, vital. The use of regenerative energy in many primary forms leads to the necessity to store grid dimensions for maintaining continuous supply and enabling the replacement of fossil fuel systems. Chemical energy storage is one of the possibilities besides mechano-thermal and biological systems. This work starts with the more general aspects of chemical energy storage in the context of the geosphere and evolves to dealing with aspects of electrochemistry, catalysis, synthesis of catalysts, functional analysis of catalytic processes and with the interface between electrochemistry and heterogeneous catalysis. Top-notch experts provide a sound, practical, hands-on insight into the present status of energy conversion aimed primarily at the young emerging research front.

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Hochschulverlag AG

Promoting Energy Efficiency Investments Case Studies in the Residential Sector Organization for Economic

Private Equity Demystified Elsevier

This book catalogs the most popular and commonly used serial-port interfaces and provides details on the specifications and the latest standards, enabling you to select an interface for a new design or verify that an interface is working correctly. Each chapter is based on a different interface and is written in an easy to follow, standard format. With this book you will learn: The most widely used serial interfaces How to select the best serial interface for a specific application or design The trade-offs between data rate and distance (length or range) The operation and benefits of serial data transmission The most common media used for serial data transmission Covers the most popular and commonly used interfaces and provides details on their specifications and standards Explains the key concepts to enable an engineer to select an interface for a new design or verify that an interface is working correctly Each chapter is based on a different interface and is written in an easy to follow, standard format

Thermal Measurements and Inverse Techniques Springer Science & Business Media

A project manager must not only master methods and processes, but also have the ability to deal with new, unexpected and critical situations. The book deals with these challenges, the passion for projects and the creativity which is required in order to lead projects and bring them to a successful conclusion. Experienced project managers report on exciting tasks in various countries, daily life as project managers and about their personal experiences and learning effects. Readers will experience

the fascinating appeal of the job of a "project manager", which also means constantly being prepared to get into a new task. Furthermore, the book provides ideas about how to overcome social, cultural, organisational, financial, bureaucratic or other hurdles. Not only classic project managers - engineers and economists -, but also lawyers or industrial engineers, who work in projects or are interested in project work, will be inspired by this book, how personal commitment and professional, organisational and social capabilities combine to form this unique profession. *Thermal Energy Storage for Sustainable Energy Consumption* Promoting Energy Efficiency Investments Case Studies in the Residential Sector With its uncommon presentation of instructional material regarding mathematical modeling, measurements, and solution of inverse problems, *Thermal Measurements and Inverse Techniques* is a one-stop reference for those dealing with various aspects of heat transfer. Progress in mathematical modeling of complex industrial and environmental systems has e *Design News* Oxford University Press An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources. Key Features: Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples, including business cases This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

Gaia: ecological perspectives for science and society CRC Press

This book deals with risk capital provided for established firms outside the stock market, private equity, which has grown rapidly over the last three decades, yet is largely poorly understood. Although it has often been criticized in the public mind as being short termist and having adverse consequences for employment, in reality this is far from the case. Here, John Gilligan and Mike Wright dispel some of the biggest myths and misconceptions about private equity. The book provides a unique and authoritative source from a leading practitioner and academic for practitioners, policymakers, and researchers that explains in detail what private equity involves and reviews systematic evidence of what the impact of private equity has been. Written in a highly accessible style, the book takes the reader through what private equity means, the different actors involved, and issues concerning sourcing, checking out, valuing, and structuring deals. The various themes from the systematic academic evidence are highlighted in numerous summary vignettes placed alongside the text that discuss the practical aspects. The main part of the work concludes with an up-to-date discussion by the authors, informed commentators on the key issues in the lively debate about private equity. The book further contains summary tables of the academic research

carried out over the past three decades across the private equity landscape including: the returns to investors, economic performance, impact on R&D and employees, and the longevity and life-cycle of private equity backed deals.

Monthly Bulletin John Wiley & Sons

Existing buildings are responsible for over 40% of the world's total primary energy consumption. An impressive amount of energy could be saved simply by applying energy-efficient technologies. Yet, various market barriers inhibit energy efficiency improvements in existing buildings and result in energy savings that are significantly lower than potentials. This publication provides illustrations of policies and measures implemented in five IEA member countries and the European Union. Each case includes relevant background and contextual information, as well as a detailed evaluation of each policy according to five pre-defined criteria: relevance, effectiveness, flexibility, clarity and sustainability.

Canadian Patent Office Record Springer Science & Business Media

This unique and comprehensive text considers all aspects of heat exchanger fouling from the basic science of how surfaces become fouled to very practical ways of mitigating the problem and from mathematical modelling of different fouling mechanisms to practical methods of heat exchanger cleaning. The problems that restrict the efficient operation of equipment are described and the costs, some of them hidden costs, that are associated with the fouling of heat exchangers are discussed. Some simple concepts and models of the fouling processes are presented as part of the introduction to the subject. Advice on the selection, design, installation and commissioning of heat exchangers to minimise fouling is given. A large part of the text is devoted to the use of chemical and other additives to reduce or eliminate the problem of fouling. Another large section is designed to give information on both on-line and off-line cleaning of heat exchangers. One of the difficulties faced by designers and operators of heat exchangers is anticipating the likely extent of fouling problems to be encountered with different flow streams. Another large section addresses the question and describes methods that have been used in attempting to define fouling potential. The book concludes with a chapter on how fouling information can be obtained using plant data, field tests and laboratory studies.

Predicasts F & S Index Europe BoD – Books on Demand

Edited by a leading expert in the field with contributions from experienced researchers in fibers and textiles, this handbook reviews the current state of fibrous materials and provides a broad overview of their use in research and development. Volume One focuses on the classes of fibers, their production and characterization, while the second volume concentrates on their applications, including emerging ones in the areas of energy, environmental science and healthcare. Unparalleled knowledge of high relevance to academia and industry.

Promoting Energy Efficiency Investments John Wiley & Sons

this new directory focuses on more than 500 top multinational companies, and nearly 20,000 plants, branches, and subsidiaries located worldwide. And unlike most competitors, Worldwide branch locations of multinational companies (WBLMC) covers companies that are not headquartered in the U.S. in addition to those that are.

Peak Energy Demand and Demand Side Response Gale / Cengage Learning

With different intensities, depending on the season, every morning and evening of any weekday there are the same peaks in electricity demand. Peaks can bring about significantly negative environmental and economic impacts. Demand Side Response is a relatively recent solution in Europe which has the potential to reduce peak demand and ease impending capacity shortages. Peak Energy Demand and Demand Side Response presents evidence on a set of Demand Side Response activities, ranging from price-based to incentive-based programmes and policies. Examples are drawn from different programmes for both residential and non-residential sectors of electricity demand, including Time of Use tariffs, Critical Peak Pricing Automated Demand Controllers and Ancillary Services. The book also looks at the actual energy saving impacts of smart meters, the activities which constitute peak demand and the potential opportunities associated with European

smart grids and Capacity Markets. This is the first book presenting comprehensive analysis of the impacts, cost benefits and risks associated with Demand Side Response programmes and policies. It should be of interest to students, scholars and policy-makers in the areas of energy, environmental economics and applied economics.

Ki Klima Kälte Heizung ASM International

Temperature is the most often-measured environmental quantity and scientists are continuously improving ways of sensing it. To present their work in the field of temperature sensing, researchers from distant parts of the world have joined their efforts and contributed their ideas according to their interest and engagement. Their articles will give you the opportunity to understand concepts and uses of fiber-optic sensing technology. The optical fiber Mach-Zehnder interferometer for temperature sensing is presented, as well as the optical fiber-distributed temperature sensor and fiber Bragg grating-based sensor. You can learn about tunable diode laser absorption spectroscopy and its various industrial applications. Last but not least, cutting temperature measurements during the machining of aluminum alloys provides us with an insight into the correlation between cutting conditions, mechanical strength of the aluminum alloy, and the cutting temperature measured using the tool-workpiece thermocouple system. The editors hope that the presented contributions will allow both professionals and readers not involved in the immediate field to understand and enjoy the topic.

Chemical Energy Storage Walter de Gruyter GmbH & Co KG

Urea-SCR Technology for deNOx After Treatment of Diesel Exhausts presents a complete overview of the selective catalytic reduction of NOx by ammonia/urea. The book starts with an illustration of the technology in the framework of the current context (legislation, market, system configurations), covers the fundamental aspects of the SCR process (catalysts, chemistry, mechanism, kinetics) and analyzes its application to useful topics such as modeling of full scale monolith catalysts, control aspects, ammonia injections systems and integration with other devices for combined removal of pollutants.

Official Gazette of the United States Patent Office Routledge

Dieser Band enthält zehn aktuelle Beiträge zur Schweizer Immobilienwirtschaft. Die Arbeiten bieten raschen und einfachen Zugriff auf aktuelle Erkenntnisse aus den Themengebieten «Immobilienmanagement», «Immobilieninvestments», «Immobilienrecht» sowie «Urban Management». Die Publikation Immobilienwirtschaft aktuell erscheint jährlich und wird vom Center for Urban & Real Estate Management (CUREM) herausgegeben. Sie enthält die Zusammenfassung der besten Abschlussarbeiten des Masters of Advanced Studies in Real Estate. Ziel ist die Förderung der akademischen und zugleich praxisnahen Diskussion immobilienrelevanter Themen in der Schweiz. Die vollständigen Abschlussarbeiten stehen auf www.curem.uzh.ch zum kostenlosen Download zur Verfügung. CUREM ist Teil des Institutes für Banking und Finance an der Universität Zürich und widmet sich der immobilienwirtschaftlichen Forschung und Weiterbildung. Ziel ist die Förderung einer professionellen Immobilienwirtschaft in der Schweiz. Nebst dem RICS akkreditierten, berufsbegleitenden Studiengang zum «Master of Advanced Studies in Real Estate» und dem «Certificate of Advanced Studies in Urban Management» führt CUREM verschiedene Kompaktkurse, Expertenworkshops und Fachveranstaltungen durch.

World Business Directory Organization for Economic Çukurova University, Turkey in collaboration with Ljubljana University, Slovenia and the International Energy Agency Implementing Agreement on Energy Conservation Through Energy Storage (IEA ECES IA) organized a NATO Advanced Study Institute on Thermal Energy Storage for Sustainable Energy Consumption – Fundamentals, Case Studies and Design (NATO ASI TESSEC), in Cesme, Izmir, Turkey in June, 2005. This book contains manuscripts based on the lectures included in the scientific programme of the NATO ASI TESSEC.

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