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Advances in Thermal Energy Storage Systems, 2nd edition, presents a fully updated comprehensive analysis of thermal energy storage systems (TES) including all major advances and developments since the first edition published. This very successful publication provides readers with all the information related to TES in one resource, along with a variety of applications across the energy/power and construction sectors, as well as, new to this edition, the transport industry. After an introduction to TES systems, editor Dr. Prof. Luisa Cabeza and her team of expert authors consider the source, design and operation of the use of water, molten salts, concrete, aquifers, boreholes and a variety of phase-change materials for TES systems, before analyzing and simulating underground TES systems. This edition benefits from 5 new chapters covering the most advanced technologies including sorption systems, thermodynamic and dynamic modelling as well as applications to the transport industry and the environmental and economic aspects of TES. It will benefit researchers and academics of energy systems and thermal energy storage, construction engineering academics, engineers and practitioners in the energy and power industry, as well as architects of plants and storage systems and R&D managers. Includes 5 brand new chapters covering Sorption systems, Thermodynamic and dynamic models, applications to the transport sector, environmental aspects of TES and economic aspects of TES All existing chapters are updated and revised to reflect the most recent advances in the research and technologies of the field Reviews heat storage technologies, including the use of water, molten salts, concrete and boreholes in one comprehensive resource Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems, and considers their applications in residential buildings, power plants and industry

Despite the fact that the case-law of the European Court of Justice on employment related issues has become increasingly erratic of late, there is no denying the centrality of the Court's role in the development of EC employment law. Though concentration on the work of the Court of Justice may no longer be in vogue, this book examines its contribution in the employment law field in its political and economic context, as well as with reference to the juridical structures within which the Community's judicial arm is obliged to operate. The objective is not simply to critique the employment jurisprudence of the Court but also to examine the procedural, operational and structural context in which the Court of Justice is obliged to work and to reflect on how this context may affect the jurisprudential outcome. The book focuses, in particular, on the shortcomings of the preliminary reference procedure. When the Court of Justice hands down decisions in the employment law field, Article 234 EC dictates a particular type of judicial dialogue between it and the national

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referring courts. It is contended that the dual dispute resolution/public interest nature of the Court's role in the preliminary reference procedure goes some way to explaining why its answers are often regarded as unsatisfactory from the perspective of the referring court and "users" of EC law generally. The book further outlines the developing Community policy on employment and reflects on the effect which this nascent policy may have on the balancing exercises which the Court is inevitably called upon to perform in a variety of social policy contexts. Finally, part two of the book examines specific substantive areas of EC employment law. The policy considerations at play in the case-law of the Court are discussed in detail, as is the coherence of this case-law with the Community's political stance on employment. The third edition of this creative and successful textbook provides a broad overview of entrepreneurship from a theoretical and practical perspective. Engaging for undergraduates, it embeds theories of entrepreneurship with tensions and dilemmas, presented as paradoxes for each chapter. It offers insights into the entrepreneurial process and challenges readers to assess the paradoxes and pitfalls encountered on an entrepreneurial journey.

Die Energiewende hat viele Facetten. Eine davon ist die Stromversorgung von Fabriken. Hier liegt der Ursprung des Umbruchs in der Antriebstechnik, die heute bereits gleichstrombasiert ist, während das Netz Wechselstrom liefert. In diesem Buch erfahren Sie, welche Vorteile es hat ein umfassendes Gleichstromfabriknetz aufzubauen, in das alle Stromerzeuger ihre Energie einspeisen und aus dem alle Verbraucher direkt versorgt werden. Alle damit verbundenen konzeptionellen, wirtschaftlichen, technischen und organisatorischen Fragestellungen werden in diesem Buch behandelt, z. B.: - Potenziale und wirtschaftliche Abschätzung der Gleichstromfabrik im Vergleich mit einer heutigen wechselstromversorgten Fabrik - Systemkonzeptentwurf für die notwendigen System- und Geräteanpassungen mit konkreten Lösungen für die Umsetzung - Detaillierte Behandlung aller relevanten technischen Themen, wie Topologie, Spannungsniveau, Versorgungskonzepte, Erdung und Netzformen, EMV, Vorladung - Kennlinienbasierte Regelung eines Gleichstromnetzes mit unterschiedlichen Versorgungsgeräten und Lasten - Gewährleistung der Netzstabilität, auch bei hochdynamischer Belastung und ohne zusätzliche Kommunikation - Behandlung wesentlicher Sicherheitsaspekte - Planung und Auslegung eines Gleichstromnetzes in der eigenen Fabrik, inklusive Darstellung der Planungsaufgaben und Hinweise für den Anwender Das Buch zeigt darüber hinaus vier reale Anwendungen, die mit dem beschriebenen, herstelleroffenen Gleichstromnetz realisiert wurden. Dabei werden jeweils unterschiedliche konzeptionelle Schwerpunkte erläutert, um die mögliche Bandbreite des Einsatzes zu demonstrieren.

The earth - our asset; Business, sustainable development and environmental assets; The air around us; The water we need; The vanishing forests; The richness of nature: biodiversity; The lost resource: waste; Hopes and promises: population, poverty and health; The business response to sustainable development; The greening of enterprise:

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industry's score; Fueling economic development: the double edge of energy; Bridging the gap: industry's role in technology cooperation; The road ahead; The ICC business charter for sustainable development; The history of the business charter; Further reference material on cases; Corporate environmental profiles; The Rio declaration and ICC business charter on environment and development; Reference documents.

This book provides a holistic picture of the digital age as it emerges in the 2010s. On the background of business analysis concepts from firm to megatrends and all business sectors of the World, the digital age of information systems and digital drivers are thoroughly laid out.

This was first published in 2000: This work is founded on the premise that many analyses of economic restructuring and of gender relations fail to recognize two things. First, the situation facing women is different from that of the 1960s when the conceptual apparatuses for analyzing "women and work" were created. Labour markets are dominated by flexible, non-standard work, precarious contractual relations and income disparities. Therefore, it is difficult to structure political claims or analysis around the notion that there is a single labour market, that the primary problem is discrimination or inappropriate training, and that political strategies should focus on discrimination and non-traditional employment. Rather, new challenges require new solutions. The second point of departure is that it is impossible to understand either contemporary labour markets, or the roots of employment and other public policies without locating them vis a vis patterns of gender inequalities generated by and in these labour markets. The labour force has been feminized to such an extent that new, and often unequal gender relations are crucial to their very functioning.

Equip yourself with the knowledge and skills to maintain and troubleshoot today's complex heating, air conditioning, and refrigeration systems with REFRIGERATION AND AIR CONDITIONING TECHNOLOGY, 7th Edition. Now celebrating its 25th anniversary, this time honored best seller provides the exceptional hands-on guidance, practical applications, latest technology and solid foundation you need to fully understand today's HVAC service and repair, its environmental challenges, and their solutions. Focused on sustainable technology in today's HVAC/R industry with an emphasis on new technologies and the latest advancements in the industry, the 7th edition has been updated to include more on Green Awareness, LEED accreditation and building performances with two new chapters on Energy Audits and Heat Gains and Losses. This edition covers the all-important soft skills and customer relation issues that impact customer satisfaction and employment success. Memorable examples, more than 260 supporting photos and unique Service Call features emphasize the relevance and importance of what you are learning. Trust Refrigeration and Air Conditioning TECHNOLOGY 7E to provide you with clear and accurate coverage of critical skills your HVAC/R success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

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version.

This collection of papers from a prestigious IMechE conference looks at the latest innovations and techniques from experts in the field of rotating machinery from industry and academia. Reflecting latest developments in air, gas, refrigeration and related systems, these conference transactions will be of vital importance to all those equipment manufacturers, suppliers, users, and research organizations who wish to be well informed of developments and advances in this important field of engineering. Topics covered: Scroll Compressors Refrigeration Environmental Issues Screw Compressors Reciprocating Compressors Expanders Centrifugal Compressors Novel Designs Linear Compressors Numerical Modelling Operation and Maintenance

This manual takes both novice and experienced boatowner through minor to major repairs of electrical systems, engines, electronics, steering systems, generators, pumps, cookers, spars and rigging. When it was first published in 1990, the Boatowner's Mechanical & Electrical Manual broke new ground. It was hailed as the first truly DIY manual for boatowners and has sold in its thousands ever since. There have been significant changes in boat systems since then, particularly electrical systems, and this fourth edition has been fully updated to reflect these developments and expand its predecessor's worldwide popularity. 'Probably the best technical reference and troubleshooting book in the world' Yachting Monthly 'It deserves to come standard with every boat' Yachting World

Faced with the ever-accelerating pace of technological change and the restructuring of markets, many firms have been questioning the appropriateness of their own organizational structure and effectiveness. Consequently, we have witnessed much organizational experimentation and the development of new forms of organizing over the last decade. Firms are more dependent than ever on the need for continuous and radical innovations – and often innovations that go beyond their existing businesses. This challenges firms in terms of knowledge and idea sharing, and often necessitates the need to expand beyond the boundaries of the single firm for multi-party collaboration to meet serious challenges and develop creative solutions. Drawing from the Fourth International Workshop on Organization Design, and featuring contributions from an international array of specialists, this volume focuses on the expansion beyond the boundaries of the single firm and multi-firm networks, to include, for example, community-based organization designs. A community is a connected set of firms; the connections can take on many different dimensions. For organization design theory, community-based organizations have many implications. For one, organization design theory has to identify and describe designs that enhance collaborative behavior among firms without restricting the ability of the individual firm to continue to compete within its own marketplace. Moreover, organization design theory also has to identify and describe information processing strategies and designs that allow the continuous generation, sharing, and application of existing information

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and knowledge. The development of effective collaborative community designs is critically important to the global economy because, increasingly, our future depends on pursuing shared goals and sustainably developing our global commons. Ideally, the ideas and findings in this book will contribute to increased attention to new organization designs capable of meeting 21st-century opportunities and challenges.

The reader gets unique insight into how a modern chief executive manages his enterprise. Read about Niels B. Christiansen's strategy considerations, about his procedures and tools and what other leaders and enterprises can learn from Danfoss. A mere two weeks before the financial crisis broke out in 2008, Niels B. Christiansen was appointed top executive of Danfoss with a staff of 23,000 employees. The crisis hit the enterprise hard, requiring the layoff of several thousands of employees. In spite of the crisis, Danfoss has succeeded in establishing a new, long-term strategy, which has attracted international attention, and Danfoss has since achieved more value creation than its competitors, such as the juggernauts German Siemens, American Emerson Electric and Swedish-Swizz ABB. Here is the book that tells the story.

The development of hermetic (sealless) pumps over the last half century are traced and recent design innovations are described. The current state of the technology is analyzed. The design, performance, and application of hermetic centrifugal pumps and rotary displacement pumps are studied.

Entdecken Sie mit diesem Buch die wissenschaftliche Diskussion zum Technologie- und Innovationsmanagement Dieses Fallstudienbuch über das Technologie- und Innovationsmanagement ermöglicht anhand lokaler Beispiele und realer Probleme anschauliches und praxisorientiertes Lehren und Lernen. Da die Fallstudien in sich abgeschlossen sind, können sie in beliebiger Reihenfolge je nach Schwerpunkt und Interesse behandelt werden. So setzen Sie das Buch zielgenau ein. Dozierende können dieses Buch vielfältig einsetzen, und Studierende können auch im Selbststudium lernen, die theoretischen Inhalte der Vorlesungen auf reale Probleme anzuwenden. Zu diesem Zweck enthält das Buch zu jeder Case Study eine Vielzahl an Fragen und Denkanstößen sowie Praxistipps zu betriebswirtschaftlichen Technologiestrategien. Zahlreiche Fragen und Lösungsmöglichkeiten runden das Buch ab. Mit spielerischem Praxisbezug zu Lösungen und Ideen In einer kurzen Zusammenfassung werden zu Beginn der Fallbeispiele nur die nötigsten Informationen (etwa die Branche oder das Problem) genannt. Das soll dem Leser die Möglichkeit geben, tiefer in das Problem einzusteigen oder eine andere Fallstudie auszuwählen. Des Weiteren liefert das Buch wichtige Hintergrundinformationen über das Technologie- und Innovationsmanagement, die helfen, das Problem zu verstehen. Die besondere Anschaulichkeit der Situationsbeschreibungen erleichtert es den Lesern, sich in einen Mitarbeiter des Industrieunternehmens hineinzusetzen. Sobald er sich für eine Fallstudie entschieden hat, ist es seine Aufgabe, in die

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Rolle interner Berater zu schlüpfen, die Informationen zu filtern und die Ursache des Problems zu finden. Der dritte Teil des jeweiligen Falles enthält schließlich einen Überblick über die Konzepte, die zu einer sinnvollen Lösung führen. Die nationalsozialistische Besetzung Europas wirkte massiv auf die Volkswirtschaften aller betroffenen Gebiete ein. Die Proklamation eines Großwirtschaftsraums eröffnete die Perspektive der Grenzenlosigkeit. Den zur Verwaltung der besetzten Gebiete delegierten Beamten und Militärs gingen mitunter die rationalen Maßstäbe für die wirtschaftliche Ausbeutung verloren. Auf der anderen Seite waren sie bei der Durchsetzung ihrer Ziele auf die bürokratischen Mittel angewiesen, die ihnen aus ihrer bisherigen Tätigkeit vertraut waren. Mit Beiträgen von: Steen Andersen, Jaromir Balcar, Marcel Boldorf, Jordi Catalan, Harold James, Hervé Joly, Jaroslav Kucera, Sergei Kudryashov, Kim Oosterlinck, Jonas Scherner, Harald Wixforth, Andrzej Wrzyszc.

Grid converters are the key player in renewable energy integration. The high penetration of renewable energy systems is calling for new more stringent grid requirements. As a consequence, the grid converters should be able to exhibit advanced functions like: dynamic control of active and reactive power, operation within a wide range of voltage and frequency, voltage ride-through capability, reactive current injection during faults, grid services support. This book explains the topologies, modulation and control of grid converters for both photovoltaic and wind power applications. In addition to power electronics, this book focuses on the specific applications in photovoltaic wind power systems where grid condition is an essential factor. With a review of the most recent grid requirements for photovoltaic and wind power systems, the book discusses these other relevant issues: modern grid inverter topologies for photovoltaic and wind turbines islanding detection methods for photovoltaic systems synchronization techniques based on second order generalized integrators (SOGI) advanced synchronization techniques with robust operation under grid unbalance condition grid filter design and active damping techniques power control under grid fault conditions, considering both positive and negative sequences Grid Converters for Photovoltaic and Wind Power Systems is intended as a coursebook for graduated students with a background in electrical engineering and also for professionals in the evolving renewable energy industry. For people from academia interested in adopting the course, a set of slides is available for download from the website.

www.wiley.com/go/grid_converters

In the 2010s, new technological and business trends threaten, or promise, to disrupt multiple industries to such a degree that we might be moving into a new and fourth industrial revolution. The background and content of these new developments are laid out in the book from a holistic perspective. Based on an outline of the nature and developments of the market economy, business, global business industries and IT, the new technological and business trends are thoroughly dealt with, including issues such as internet, mobile, cloud, big data, internet of things, 3D-printing, the sharing economy, social media, gamification, and the way they transform industries and businesses

Compiles current research into the analysis and design of power electronic converters for industrial applications and renewable energy systems, presenting modern and future applications of power electronics systems in the field of electrical vehicles With emphasis on the importance and long-term viability of Power Electronics for Renewable Energy this book brings together the state of the art knowledge and cutting-edge techniques in various stages of research. The topics included are not currently available for practicing professionals and aim to enable the reader to directly apply the knowledge gained to their designs. The book addresses the practical issues of current and future

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electric and plug-in hybrid electric vehicles (PHEVs), and focuses primarily on power electronics and motor drives based solutions for electric vehicle (EV) technologies. Propulsion system requirements and motorsizing for EVs is discussed, along with practical system sizing examples. Key EV battery technologies are explained as well as corresponding battery management issues. PHEV power system architectures and advanced power electronics intensive charging infrastructures for EVs and PHEVs are detailed. EV/PHEV interface with renewable energy is described, with practical examples. This book explores new topics for further research needed worldwide, and defines existing challenges, concerns, and selected problems that comply with international trends, standards, and programs for electric power conversion, distribution, and sustainable energy development. It will lead to the advancement of the current state-of-the-art applications of power electronics for renewable energy, transportation, and industrial applications and will help add experience in the various industries and academia about the energy conversion technology and distributed energy sources. Combines state of the art global expertise to present the latest research on power electronics and its application in transportation, renewable energy and different industrial applications. Offers an overview of existing technology and future trends, with discussion and analysis of different types of converters and control techniques (power converters, high performance power devices, power system, high performance control system and novel applications). Systematic explanation to provide researchers with enough background and understanding to go deeper in the topics covered in the book. Little has been published on the subject of energy-efficient refurbishment of offices, despite the growing need to refurbish older office building stock throughout Europe, and the global requirement to conserve energy. The book suggests the most energy efficient and environmentally friendly way to refurbish offices using examples of real buildings and designs wherever possible. Each case study includes a building description, the retrofitting strategy, passive and low energy technologies used, energy assessment, comfort and environment assessment, financial assessment, client and market assessment, and conclusion. This practical design manual will be invaluable for architects and engineers specialising in the refurbishment of commercial buildings.

Through a series of examples from physics, engineering, biology and economics, this book illustrates the enormous potential for application of ideas and concepts from nonlinear dynamics and chaos theory. The overlap with examples published in other books is virtually equal to zero. The book takes the reader from detailed studies of bifurcation structures of relatively simple models to pattern formation in spatially extended systems. The book also discusses the different perspectives that nonlinear dynamics brings to different fields of science.

Market-Oriented Product Innovation differs from most other titles, written either from a marketing or technical perspective, by giving a holistic view of the product innovation process. It has a product perspective, written from a managerial point of view, recognizing that product innovation, or new product development, is a discipline of its own. It is concerned with managing the products (goods and services) through their life cycle, integrating marketing knowledge and technological expertise, with the aim of getting satisfied customers. The book also gives a thorough treatment of the human and cultural aspects of product innovation by focusing on the change processes needed for the development of a market-oriented culture.

A magazine for designers of interactive products.

Challenged by the recent economic crisis, the building and construction industry is currently seeking new orientation and

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strategies. Here mass customisation is uncovered as a key strategy in helping to meet this challenge. The term mass customisation denotes an offering that meets the demands of each individual customer, whilst still being produced with mass production efficiency. Today mass customisation is emerging from a pilot stage into a scalable and sustainable strategy... The first dedicated publication of its kind, this book provides a forum for the concept within an applied and highly innovative context. The book includes contributions from some of the most prominent thinkers and practitioners in the field from across the world, including Kasper S. Vibæk, Steve Kendall, Martin Bechthold, Mitchell M. Tseng, and Masa Noguchi. Bringing together this panel of experts who have carried out research both in academia and practice, this book provides an overview of state-of-the-art practice related to the concept of customisation and personalisation within the built environment.

Employment Law at the European Court of Justice Judicial Structures, Policies and Processes Bloomsbury Publishing

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