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World Investment Report 2020

International Production Beyond the Pandemic

United Nations *The 30th edition of the World Investment Report looks at the prospects for foreign direct investment and international production during and beyond the global crisis triggered by the COVID-19 (coronavirus) pandemic. The Report not only projects the immediate impact of the crisis on investment flows, but also assesses how it could affect a long-term structural transformation of international production. The theme chapter of the Report reviews the evolution of international production networks over the past three decades and examines the configuration of these networks today. It then projects likely course changes for the next decade due to the combined effects of the pandemic and pre-existing megatrends, including the new industrial revolution, the sustainability imperative and the retreat of laissez faire policies. The system of international production underpins the economic growth and development prospects of most countries around the world. Governments worldwide will need to adapt their investment and development strategies to a changing international production landscape. At the request of the UN General Assembly, the Report has added a dedicated section on investment in the Sustainable Development Goals, to review global progress and propose possible courses of action.*

AMJ, Agricultural Machinery Journal

Sustainable Energy--without the Hot Air

Uit Cambridge Limited *Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.*

Hydrogen: A renewable energy perspective

International Renewable Energy Agency (IRENA) *This paper examines the potential of hydrogen fuel for hard-to-decarbonise energy uses, including aviation, shipping and other. But the decarbonisation impact depends on how hydrogen is produced.*

Winning the Oil Endgame

Innovation for Profits, Jobs and Security

Earthscan *Enough about the oil problem. Here's the solution. Over a few decades, starting now, a vibrant US economy (then others) can completely phase out oil. This will save a net \$70 billion a year, revitalize key industries and rural America, create a million jobs, and enhance security. Here's the roadmap ? independent, peer-reviewed, co-sponsored by the Pentagon ? for the transition beyond oil, led by business and profit.*

Handbook of Biomass Downdraft Gasifier Engine Systems

Biomass Energy Foundation

Planning Algorithms

Cambridge University Press *Planning algorithms are impacting technical disciplines and industries around the world, including robotics, computer-aided design, manufacturing, computer graphics, aerospace applications, drug design, and protein folding. This coherent and comprehensive book unifies material from several sources, including robotics, control theory, artificial intelligence, and algorithms. The treatment is centered on robot motion planning, but integrates material on planning in discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The last part of the book delves into planning under*

differential constraints that arise when automating the motions of virtually any mechanical system. This text and reference is intended for students, engineers, and researchers in robotics, artificial intelligence, and control theory as well as computer graphics, algorithms, and computational biology.

Fuel Cell Handbook (Seventh Edition)

Lulu.com Fuel cells are one of the cleanest and most efficient technologies for generating electricity. Since there is no combustion, there are none of the pollutants commonly produced by boilers and furnaces. For systems designed to consume hydrogen directly, the only products are electricity, water and heat. Fuel cells are an important technology for a potentially wide variety of applications including on-site electric power for households and commercial buildings; supplemental or auxiliary power to support car, truck and aircraft systems; power for personal, mass and commercial transportation; and the modular addition by utilities of new power generation closely tailored to meet growth in power consumption. These applications will be in a large number of industries worldwide. In this Seventh Edition of the Fuel Cell Handbook, we have discussed the Solid State Energy Conversion Alliance Program (SECA) activities. In addition, individual fuel cell technologies and other supporting materials have been updated.

Renewable and Efficient Electric Power Systems

John Wiley & Sons A solid, quantitative, practical introduction to a wide range of renewable energy systems—in a completely updated, new edition The second edition of Renewable and Efficient Electric Power Systems provides a solid, quantitative, practical introduction to a wide range of renewable energy systems. For each topic, essential theoretical background is introduced, practical engineering considerations associated with designing systems and predicting their performance are provided, and methods for evaluating the economics of these systems are presented. While the book focuses on the fastest growing, most promising wind and solar technologies, new material on tidal and wave power, small-scale hydroelectric power, geothermal and biomass systems is introduced. Both supply-side and demand-side technologies are blended in the final chapter, which introduces the emerging smart grid. As the fraction of our power generated by renewable resources increases, the role of demand-side management in helping maintain grid balance is explored. Renewable energy systems have become mainstream technologies and are now, literally, big business. Throughout this edition, more depth has been provided on the financial analysis of large-scale conventional and renewable energy projects. While grid-connected systems dominate the market today, off-grid systems are beginning to have a significant impact on emerging economies where electricity is a scarce commodity. Considerable attention is paid to the economics of all of these systems. This edition has been completely rewritten, updated, and reorganized. New material has been presented both in the form of new topics as well as in greater depth in some areas. The section on the fundamentals of electric power has been enhanced, making this edition a much better bridge to the more advanced courses in power that are returning to many electrical engineering programs. This includes an introduction to phasor notation, more emphasis on reactive power as well as real power, more on power converter and inverter electronics, and more material on generator technologies. Realizing that many students, as well as professionals, in this increasingly important field may have modest electrical engineering backgrounds, early chapters develop the skills and knowledge necessary to understand these important topics without the need for supplementary materials. With numerous completely worked examples throughout, the book has been designed to encourage self-instruction. The book includes worked examples for virtually every topic that lends itself to quantitative analysis. Each chapter ends with a problem set that provides additional practice. This is an essential resource for a mixed audience of engineering and other technology-focused individuals.

Cosmic Rays at Earth

Elsevier In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be regarded as the sources of this radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess' discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly, the field of particle physics that was initiated by the discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics, now under the name of astroparticle physics. Secondly, an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research that is concerned with the origin, acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics, astronomy and cosmology. Presently very popular fields of research have rapidly evolved, such as high-energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of its ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the Earth's atmosphere, at sea level and underground. Included are predominantly experimental but also theoretical data. In addition the book contains related data, definitions and important relations. The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches.

Transportation Energy Data Book

Strategies for Sustainable Architecture

Taylor & Francis Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an invaluable reference to all those concerned with architecture and sustainability issues.

Strategy Safari

A Guided Tour Through The Wilds of Strategic Management

Simon and Schuster Based on comprehensive research into strategic planning literature and its military antecedents, the successor to *The Rise and Fall of Strategic Planning* offers a penetrating analysis of the ten dominant schools of strategic thought. Reprint. 15,000 first printing.

Technologies and Applications for Smart Charging of Electric and Plug-in Hybrid Vehicles

Springer This book outlines issues related to massive integration of electric and plug-in hybrid electric vehicles into power grids. Electricity is becoming the preferred energy vector for the next new generation of road vehicles. It is widely acknowledged that road vehicles based on full electric or hybrid drives can mitigate problems related to fossil fuel dependence. This book explains the emerging and understanding of storage systems for electric and plug-in hybrid vehicles. The recharging stations for these types of vehicles might represent a great advantage for the electric grid by facilitating integration of renewable and distributed energy production. This book presents a broad review from analyzing current literature to on-going research projects about the new power technologies related to the various charging architectures for electric and plug-in hybrid vehicles. Specifically focusing on DC fast charging operations, as well as, grid-connected power converters and the full range of energy storage systems. These key components are analyzed for distributed generation and charging system integration into micro-grids. The authors demonstrate that these storage systems represent effective interfaces for the control and management of renewable and sustainable distributed energy resources. New standards and applications are emerging from micro-grid pilot projects around the world and case studies demonstrate the convenience and feasibility of distributed energy management. The material in this unique volume discusses potential avenues for further research toward achieving more reliable, more secure and cleaner energy.

Lead-Acid Batteries for Future Automobiles

Elsevier Lead-Acid Batteries for Future Automobiles provides an overview on the innovations that were recently introduced in automotive lead-acid batteries and other aspects of current research. Innovative concepts are presented, some of which aim to make lead-acid technology a candidate for higher levels of powertrain hybridization, namely 48-volt mild or high-volt full hybrids. Lead-acid batteries continue to dominate the market as storage devices for automotive starting and power supply systems, but are facing competition from alternative storage technologies and being challenged by new application requirements, particularly related to new electric vehicle functions and powertrain electrification. Presents an overview of development trends for future automobiles and the demands that they place on the battery Describes how to adapt LABs for use in micro and mild hybrid EVs via collector construction and materials, via carbon additives, via new cell construction (bipolar), and via LAB hybrids with Li-ion and supercap systems System integration of LABs into vehicle power-supply and hybridization concepts Short description of competitive battery technologies

World Energy Outlook 2019

The World Energy Outlook series is a leading source of strategic insight on the future of energy and energy-related emissions, providing detailed scenarios that map out the consequences of different energy policy and investment choices. This year's edition updates the outlooks for all fuels, technologies and regions, based on the latest market data, policy initiatives and cost trends. In addition, the 2019 report tackles some key questions in depth: (i) What do the shale revolution, the rise of liquefied natural gas, the falling costs of renewables and the spread of digital technologies mean for tomorrow's energy supply?; (ii) How can the world get on a pathway to meet global climate targets and other sustainable energy goals?; (iii) What are the energy choices that will shape Africa's future, and how might the rise of the African consumer affect global trends?; (iv) How large a role could offshore wind play in the transformation of the energy sector?; (v) Could the world's gas grids one day deliver low-carbon energy?

Digital Signal Processing with Field Programmable Gate Arrays

Springer Science & Business Media Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

Advanced Combustion Techniques and Engine Technologies for the Automotive Sector

Springer Nature This book discusses the recent advances in combustion strategies and engine technologies, with specific reference to the automotive sector. Chapters discuss the advanced combustion technologies, such as gasoline direct ignition (GDI), spark assisted compression ignition (SACI), gasoline compression ignition (GCI), etc., which are the future of the automotive sector. Emphasis is given to technologies which have the potential for utilization of alternative fuels as well as emission reduction. One special section includes a few chapters for methanol utilization in two-wheelers and four wheelers. The book will serve as a valuable resource for academic researchers and professional automotive engineers alike.

Mathematics of Public Key Cryptography

Cambridge University Press This advanced graduate textbook gives an authoritative and insightful description of the major ideas and techniques of public key cryptography.

Good Agricultural Practices for Greenhouse Vegetable Crops

Principles for Mediterranean Climate Areas

Food and Agriculture Organization This publication capitalizes on the experience of scientists from the North Africa and Near East countries, in collaboration with experts from around the world, specialized in the different aspects of greenhouse crop production. It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity. The publication is also meant to be used as a reference and tool for trainers and growers as well as other actors in the greenhouse vegetables value chain in this region.

Turn Down the Heat

Climate Extremes, Regional Impacts, and the Case for Resilience

World Bank Publications This report focuses on the risks of climate change to development in Sub-Saharan Africa, South East Asia and South Asia. Building on the 2012 report, Turn Down the Heat: Why a 4°C Warmer World Must be Avoided, this new scientific analysis examines the likely impacts of present day, 2°C and 4°C warming on agricultural production, water resources, and coastal vulnerability. It finds many significant climate and development impacts are already being felt in some regions, and that as warming increases from present day (0.8°C) to 2°C and 4°C, multiple threats of increasing extreme heat waves, sea-level rise, more severe storms, droughts and floods are expected to have further severe negative implications for the poorest and most vulnerable. The report finds that agricultural yields will be affected across the three regions, with repercussions for food security, economic growth, and poverty reduction. In addition, urban areas have been identified as new clusters of vulnerability with urban dwellers, particularly the urban poor, facing significant vulnerability to climate change. In Sub-Saharan Africa, under 3°C global warming, savannas are projected to decrease from their current levels to approximately one-seventh of total land area and threaten pastoral livelihoods. Under 4°C warming, total hyper-arid and arid areas are projected to expand by 10 percent. In South East Asia, under 2°C warming, heat extremes that are virtually absent today would cover nearly 60-70 percent of total land area in northern-hemisphere summer, adversely impacting ecosystems. Under 4°C warming, rural populations would face mounting pressures from sea-level rise, increased tropical cyclone intensity, storm surges, saltwater intrusions, and loss of marine ecosystem services. In South Asia, the potential sudden onset of disturbances to the monsoon system and rising peak temperatures would put water and food resources at severe risk. Well before 2°C warming occurs, substantial reductions in the frequency of low snow years is projected to cause substantial

reductions in dry season flow, threatening agriculture. Many of the worst climate impacts could still be avoided by holding warming below 2°C, but the window for action is closing rapidly. Urgent action is also needed to build resilience to a rapidly warming world that will pose significant risks to agriculture, water resources, coastal infrastructure, and human health.

Drawing Futures

Speculations in Contemporary Drawing for Art and Architecture

UCL Press *Drawing Futures* brings together international designers and artists for speculations in contemporary drawing for art and architecture. Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. *Drawing Futures* will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie. *Drawing Futures* focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

Power Transformer Diagnostics, Monitoring and Design Features

MDPI This book is a printed edition of the Special Issue "Power Transformer Diagnostics, Monitoring and Design Features" that was published in *Energies*

Fundamentals of Renewable Energy Processes

Academic Press We are hearing a LOT about renewable energy these days! But unlike most available resources on alternative energy that focus on politics and economic impacts, da Rosa's practical guide, *Fundamentals of Renewable Energy Processes*, is dedicated to explaining the scientific and technological principles and processes that enable energy production from safe, renewable, clean sources. Advances in the renewable energy sphere are proceeding with an unprecedented speed, and in order for the world's alarming energy challenges to be solved, solid, up-to-date resources addressing the technical aspects of renewables are essential. This new, updated 2e of da Rosa's successful book continues to give readers all the background they need to gain a thorough understanding of the most popular types of renewable energy—hydrogen, solar power, biomass, wind power, and hydropower—from the ground up. The latest advances in all these technologies are given particular attention, and are carefully contextualized to help professionals and students grasp the "whys and hows" behind these breakthroughs. Discusses how and why the most popular renewable energy sources work, including wind, solar, bio and hydrogen Provides a thorough technical grounding for all professionals and students investigating renewable energy The new 2e of a highly regarded guide written by an internationally renowned pioneer

An Oration Before the Re-union Society of Vermont Officers

In the Representatives' Hall, Montpelier, Vt., October 22d, 1868

Planetary Economics

Energy, Climate Change and the Three Domains of Sustainable Development

How well do our assumptions about the global challenges of energy, environment and economic development fit the facts? Energy prices have varied hugely between countries and over time, yet the share of national income spent on energy has remained surprisingly constant. The foundational theories of economic growth account for only about half the growth observed in practice. Despite escalating warnings for more than two decades about the planetary risks of rising greenhouse gas emissions, most

governments have seemed powerless to change course. *Planetary Economics* shows the surprising links between these seemingly unconnected facts. It argues that tackling the energy and environmental problems of the 21st Century requires three different domains of decision-making to be recognised and connected. Each domain involves different theoretical foundations, draws on different areas of evidence, and implies different policies. The book shows that the transformation of energy systems involves all three domains - and each is equally important. From them flow three pillars of policy - three quite distinct kinds of actions that need to be taken, which rest on fundamentally different principles. Any pillar on its own will fail. Only by understanding all three, and fitting them together, do we have any hope of changing course. And if we do, the oft-assumed conflict between economy and the environment dissolves - with potential for benefits to both. *Planetary Economics* charts how.

Cases in Intelligence Analysis

Structured Analytic Techniques in Action

CQ Press In their Second Edition of *Cases in Intelligence Analysis: Structured Analytic Techniques in Action*, accomplished instructors and intelligence practitioners Sarah Miller Beebe and Randolph H. Pherson offer robust, class-tested case studies of events in foreign intelligence, counterintelligence, terrorism, homeland security, law enforcement, and decision-making support. Designed to give analysts-in-training an opportunity to apply structured analytic techniques and tackle real-life problems, each turnkey case delivers a captivating narrative, discussion questions, recommended readings, and a series of engaging analytic exercises.

Handbook of Automotive Power Electronics and Motor Drives

CRC Press Initially, the only electric loads encountered in an automobile were for lighting and the starter motor. Today, demands on performance, safety, emissions, comfort, convenience, entertainment, and communications have seen the working-in of seemingly innumerable advanced electronic devices. Consequently, vehicle electric systems require larger capacities and more complex configurations to deal with these demands. Covering applications in conventional, hybrid-electric, and electric vehicles, the *Handbook of Automotive Power Electronics and Motor Drives* provides a comprehensive reference for automotive electrical systems. This authoritative handbook features contributions from an outstanding international panel of experts from industry and academia, highlighting existing and emerging technologies. Divided into five parts, the *Handbook of Automotive Power Electronics and Motor Drives* offers an overview of automotive power systems, discusses semiconductor devices, sensors, and other components, explains different power electronic converters, examines electric machines and associated drives, and details various advanced electrical loads as well as battery technology for automobile applications. As we seek to answer the call for safer, more efficient, and lower-emission vehicles from regulators and consumer insistence on better performance, comfort, and entertainment, the technologies outlined in this book are vital for engineering advanced vehicles that will satisfy these criteria.

How the Body Shapes the Way We Think

A New View of Intelligence

MIT Press An exploration of embodied intelligence and its implications points toward a theory of intelligence in general; with case studies of intelligent systems in ubiquitous computing, business and management, human memory, and robotics. How could the body influence our thinking when it seems obvious that the brain controls the body? In *How the Body Shapes the Way We Think*, Rolf Pfeifer and Josh Bongard demonstrate that thought is not independent of the body but is tightly constrained, and at the same time enabled, by it. They argue that the kinds of thoughts we are capable of have their foundation in our embodiment—in our morphology and the material properties of our bodies. This crucial notion of embodiment underlies fundamental changes in the field of artificial intelligence over the past two decades, and Pfeifer and Bongard use the basic methodology of artificial intelligence—"understanding by building"—to describe their insights. If we understand how to design and build intelligent systems, they reason, we will better understand intelligence in general. In accessible, nontechnical language, and using many examples, they introduce the basic concepts by building on recent developments in robotics, biology, neuroscience, and psychology to outline a possible theory of intelligence. They illustrate applications of such a theory in ubiquitous computing, business and management, and the psychology of human memory. Embodied intelligence, as described by Pfeifer and Bongard, has important implications for our understanding of both natural and artificial intelligence.

Ignition Systems for Gasoline Engines

3rd International Conference, November 3-4, 2016, Berlin, Germany

Springer The volume includes selected and reviewed papers from the 3rd Conference on Ignition Systems for Gasoline Engines in Berlin in November 2016. Experts from industry and universities discuss in their papers the challenges to ignition systems in providing reliable, precise ignition in the light of a wide spread in mixture quality, high exhaust gas recirculation rates and high cylinder

pressures. Classic spark plug ignition as well as alternative ignition systems are assessed, the ignition system being one of the key technologies to further optimizing the gasoline engine.

WIPO Technology Trends 2019 - Artificial Intelligence

WIPO The first report in a new flagship series, *WIPO Technology Trends*, aims to shed light on the trends in innovation in artificial intelligence since the field first developed in the 1950s.

Fuel Cell Handbook

Krieger Publishing Company

Consumer Behavior

Pearson Education India

Reference Manual on Scientific Evidence

Diesel and Gasoline Engines

Climate Change and Air Pollution

The Impact on Human Health in Developed and Developing Countries

Springer This book discusses regional and international climate-change, air-pollution and human-health scenarios. The research, from both industrialized and developing countries, focuses on region-specific perspectives of climate change impacts on air pollution. After analyzing the variations of climate data over recent decades, the authors consider the different effects of climate change on air pollution and health. As stressed by the IPCC, "pollen, smoke and ozone levels are likely to increase in a warming world, affecting the health of residents of major cities. Rising temperatures will worsen air quality through a combination of more ozone in cities, bigger wild fires and worse pollen outbreaks," according to a major UN climate report. The report follows the World Health Organization in finding that air pollution is the world's greatest environmental health risk, killing 7 million people in 2014 (compared to 0.4 million deaths due to malaria). Deteriorating air quality will most affect the elderly, children, people with chronic ill-health and expectant mothers. Another report suggests that more than 5.5 million people die prematurely each year due to air pollution with over half of those deaths occurring in China and India. A study on the air pollution in the USA, suggests that more than half of US population lives in areas with potentially dangerous air pollution, and about six out of 10 of the top cities for air pollution in the USA are located in the state of California. In the face of future climate change, scientists have urged stronger emission controls to avoid worsening air pollution and the associated exacerbation of health problems, especially in more populated regions of the world. It is hoped that the implementation of the Paris Climate Agreement will help minimize air pollution. Additionally the authors consider the various measures that different countries and groups of countries, like the European Union, have adopted to mitigate the problems arising from climate change and to safeguard the health of population. The book examines the increasing incidence of diseases largely caused by climate change. The countries/regions covered in this study include the USA, Northern Europe (U.K.), Southern Europe (Italy), Canada, Australia, East Asia, Russia, Hong Kong, Taiwan, Thailand, Malaysia, Indonesia, India, South Africa, Mexico, Brazil, Caribbean countries, and Argentina.

Handbook of Driver Assistance Systems

Basic Information, Components and Systems for Active Safety and Comfort

Springer This fundamental work explains in detail systems for active safety and driver assistance, considering both their structure and their function. These include the well-known standard systems such as Anti-lock braking system (ABS), Electronic Stability Control (ESC) or Adaptive Cruise Control (ACC). But it includes also new systems for protecting collisions protection, for changing the lane, or for convenient parking. The book aims at giving a complete picture focusing on the entire system. First, it describes the components which are necessary for assistance systems, such as sensors, actuators, mechatronic subsystems, and control elements. Then, it explains key features for the user-friendly design of human-machine interfaces between driver and assistance system. Finally, important characteristic features of driver assistance systems for particular vehicles are presented: Systems for commercial vehicles and motorcycles.

Evolutionary Computing and Mobile Sustainable Networks

Proceedings of ICECMSN 2020

Springer Nature This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M. Visvesvaraya Institute of Technology on 20–21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks.

Small is Profitable

The Hidden Economic Benefits of Making Electrical Resources the Right Size

Routledge Today's electricity industry - large power stations feeding a nationwide grid - will soon be a thing of the past. This book explains why and what will replace it - decentralized and distributed electrical resources which can be up to 10 times as economically valuable. The authors - all leading experts in the field - explain very clearly and thoroughly all the benefits, so the engineers will understand the economic advantages and the investors will understand the engineering efficiencies. Here's what industry experts are saying about *Small is Profitable*... 'A tour-de-force and a goldmine of good ideas. It is going to have a stunning impact on thinking about electricity.' Walter C. Patterson, Senior Research Fellow, Royal Institute of International Affairs, London. 'An amazing undertaking - incredibly ambitious yet magnificently researched and executed.' Dr. Shimon Awerbuch, Senior Advisor, International Energy Agency, Paris. 'Outstanding...You have thought of some [benefits] I never considered...A great resource for the innovation in energy services that will have to take place for us to have a sustainable future.' Dr. Carl Weinberg, Weinberg Associates, former Research Director, PG&E. 'This is a brilliant synthesis and overview with a lot of original analytics and insights and a very important overall theme. I think it is going to have a big impact.' Greg Kats, Principal, Capital E LLC, former Finance Director for Efficiency and Renewable Energy, U.S. Department of Energy. 'E. F. Schumacher would be proud of this rigorous extension of his thesis in *Small is Beautiful*. It shows how making systems the right size can make them work better and cost less. Here are critical lessons for the new century: technologies tailored to the needs of people, not the reverse, can improve the economy and the environment.' Dr. Daniel Kammen, Professor of Energy and Society and of Public Policy, University of California, Berkeley. 'Small is Profitable creates an unconventional but impeccably reasoned foundation to correctly assign the costs and true benefits of distributed energy systems. It has become an indispensable tool for modelling distributed energy systems benefits for us.' Tom Dinwoodie, CEO and Chairman, PowerLight Corporation. 'A Unique and valuable contribution to the distributed energy industry...Small Is Profitable highlights the societal benefits of distributed resources, and will be a helpful guide to policymakers who wish to properly account for these benefits in the marketplace.' Nicholas Lenssen, Senior Director, Primen. 'This book will shift the electric industry from the hazards of overcentralization toward the new era where distributed generation will rule.' Steven J. Strong, President, Solar Design Associates, Inc. 'Readers will understand why distributed resources are poised to fundamentally alter the electric power system. Its comprehensive review of the benefits of distributed resources [is] an important part of my library.' Dr. Thomas E. Hoff, President, Clean Power Research. 'The most comprehensive treatise on distributed generation.... Great job and congratulations.' Howard Wenger, Principal, Pacific Energy Group '...[D]ensely packed with information and insights...goes a long way to demonstrate that the former paradigm of electric power supply no longer makes sense.' Prof. Richard Hirsh, University of Vermont, Leading historian of the electric power sector. 'Amory Lovins was already the world's most original and influential thinker on the future of energy services in general and electricity systems in particular. This remarkable book is a very worthy addition to an extraordinary legacy.' Ralph Cavanagh, Energy Co-Director, Natural Resources Defense Council. 'This is a book every utility professional should have on the bookshelf.' Dr Peter S. Fox-Penner, Principal and Chairman of the Board, the Brattle Group, former Principal Deputy Assistant Secretary of Energy.

Tidal Energy Systems

Design, Optimization and Control

Elsevier Tidal Energy Systems: Design, Optimization and Control provides a comprehensive overview of concepts, technologies, management and the control of tidal energy systems and tidal power plants. It presents the fundamentals of tidal energy, including the structure of tidal currents and turbulence. Technology, principles, components, operation, and a performance assessment of each component are also covered. Other sections consider pre-feasibility analysis methods, plant operation, maintenance and power generation, reliability assessment in terms of failure distribution, constant failure rate and the time dependent failure model. Finally, the most recent research advances and future trends are reviewed. In addition, applicable real-life examples and a case study of India's tidal energy scenario are included. The book provides ocean energy researchers, practitioners and graduate students with all

the information needed to design, deploy, manage and operate tidal energy systems. Senior undergraduate students will also find this to be a useful resource on the fundamentals of tidal energy systems and their components. Presents the fundamentals of tidal energy, including system components, pre-feasibility analysis, and plant management, operations and control Explores concepts of sustainability and a reliability analysis of tidal energy systems, as well as their economic aspects and future trends Covers the assessment of tidal energy systems by optimization technique and game theory