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Advances in Renewable Energy and Electric Vehicles Sanjeevikumar P. 2021-08-20 This book presents select proceedings of the International Conference on Advances in Renewable Energy and Electric Vehicles (AREEV 2020), and examines related emerging trends, feasible solutions to shape and enable the development of mankind. The topics covered include renewable energy sources, electric vehicles, energy storage systems, power system protection & security, smart grid and wide band-gap semiconductor technologies. The book also discusses applications of signal processing, artificial neural networks, optimal and robust control systems, and modeling and simulation of power electronic converters. The book will be a valuable reference for beginners, researchers, and professionals interested in power systems, renewable energy, and electric vehicles.

**Nanostructured Materials for Next-Generation Energy Storage and Conversion** Fan Li 2018-04-17 The energy crisis and pollution have posed significant risks to the environment, transportation, and economy over the last century. Thus, green energy becomes one of the critical global technologies and the use of nanomaterials in these technologies is an important and active research area. This book series presents the progress and opportunities in green energy sustainability. Developments in nanoscaled electrocatalysts, solid oxide and proton exchange membrane fuel cells, lithium ion batteries, and photovoltaic techniques comprise the area of energy storage and conversion. Developments in carbon dioxide ($CO_2$) capture and hydrogen ($H_2$) storage using tunable structured materials are discussed. Design and characterization of new nanoscaled materials with controllable particle size, structure, shape, porosity and band gap to enhance next generation energy systems are also included. The technical topics covered in this series are metal organic frameworks, nanoparticles, nanocomposites, proton exchange membrane fuel cell catalysts, solid oxide fuel cell electrode design, trapping of carbon dioxide, and hydrogen gas storage.

*Global Business* Yongsun Paik 2017-05-08 This textbook is designed to help students understand the key issues of global business by connecting theory with reality. Divided into three parts, it covers critical issues of international business, introducing readers to topics they will connect with, and discussing core concepts. With a user-friendly pedagogy and a host of helpful visuals, the authors offer a practitioner's perspective on global business knowledge, examining familiar theory on trade, direct investment, and political environment alongside fresh topics, like geopolitical conflicts, emerging markets, and sustainability. Over sixty case studies are included to illustrate the magnitude and complexity of global business involving different stakeholders. Undergraduate students looking for an introduction to international business and graduate students looking to apply their knowledge will find Global Business stimulating, since it demonstrates how theories and concepts work in real-world business settings.

**Compendium of Hydrogen Energy** Michael Ball 2015-08-28 Compendium of Hydrogen

Energy Volume 4: Hydrogen Use, Safety and the Hydrogen Economy focuses on the uses of hydrogen. As many experts believe the hydrogen economy will, at some point, replace the fossil fuel economy as the primary source of the world's energy, this book investigates the uses of this energy, from transport, to stationary and portable applications, with final sections discussing the difficulties and possibilities of the widespread adoption of the hydrogen economy. Written by both leading academics in the fields of sustainable energy and experts from the world of industry Part of a very comprehensive compendium which across four volumes looks at the entirety of the hydrogen energy economy Covers a wide array of hydrogen uses, and details safety tactics, hydrogen applications in transport, and the hydrogen economy as a whole

**Star Observer Magazine June 2015** Elias Jahshan 2015-05-19

**Green Chemistry** Noel Harris 2019-09-21 Green Chemistry concerned with chemical research and engineering that encourages the design of products and processes that minimize the use and generation of hazardous substances. It is effective in controlling the impact of chemicals on human health and the environment. Chemists and chemical engineers applying green chemistry look at the entire life cycle of a product or process, from the origins of the materials used for manufacturing to the ultimate fate of the materials after they have finished their useful life. This book is written especially for researchers at various levels e.g. in industry, R&D Laboratories, University and College laboratories etc. It describes a large number of organic reactions under green conditions. The conditions used are aqueous phase, using PTC catalyst, sonication and microwave technologies.

**Indian Business Case Studies Volume I** Sandeep Pachpande 2022-06-15 This volumes has multidisciplinary Indian case studies from different areas of managment like finance, human resource management, marketing, and strategic operations management.

*Fuel Cells* Detlef Stolten 2016-01-11 This ready reference is unique in collating in one scientifically precise and comprehensive handbook the widespread data on what is feasible and realistic in modern fuel cell technology. Edited by one of the leading scientists in this exciting area, the short, uniformly written chapters provide economic data for cost considerations and a full overview of demonstration data, covering such topics as fuel cells for transportation, fuel provision, codes and standards. The result is highly reliable facts and figures for engineers, researchers and decision makers working in the field of fuel cells.

**Electrochemical Energy Systems** Artur Braun 2018-12-03 This book is for anyone interested in renewable energy for a sustainable future of mankind. Batteries, fuel cells, capacitors, electrolyzers and solar cells are explained at the molecular level and at the power plant level, in their historical development, in their economical and political impact, and social change. Cases from geophysics and astronomy show that electrochemistry is not confined to the small scale. Examples are shown and exercised.

Ukraine Investment and Business Guide Volume 1 Strategic and Practical Information Inc Ibp 2015-06-22 Ukraine Investment and Business Guide Volume 1 Strategic and Practical Information

Utilization of Hydrogen for Sustainable Energy and Fuels Marcel Van de Voorde 2021-09-07 Carbon neutral hydrogen technologies play a key-role in preventing climate change and hydrogen is really at the heart of the energy transition. As we can produce heat and power directly from hydrogen in a clean way, we will have many applications in the growing hydrogen economy. This book presents the current state and latest development trends of hydrogen economy with the focus on applications. It gives an overview of the hydrogen utilization as it relates to the transport technology, such as automobiles, heavy-duty vehicles, trains, ships, air, and space transport and industry. Large attention is given to structural and functional materials science, technologies and innovations with focus on the development of new materials and electrolytes for specific applications. Strictly related to mobility is the relation between vehicles and refuel stations, the safety analysis, risk assessment for both infrastructures and transport. Ideal book for students of materials science, chemistry, physics; for researchers and chemical- and mechanical engineers, for industrialists, policymakers, safety agencies and governments.

Ukraine Industrial and Business Directory Volume 1 Strategic Information and Contacts IBP, Inc.
*Advanced Hybrid and Electric Vehicles* Michael Nikowitz 2016-04-05 This contributed volume contains the results of the research program “Agreement for Hybrid and Electric Vehicles”, developed in the framework of the Energy Technology Network of the International Energy Agency. The topical focus lies on technology options for the system optimization of hybrid and electric vehicle components and drive train configurations which enhance the energy efficiency of the vehicle. The approach to the topic is genuinely interdisciplinary, covering insights from fields. The target audience primarily comprises researchers and industry experts in the field of automotive engineering, but the book may also be beneficial for graduate students.
Present Approach to Traffic Flow Theory and Research in Civil and Transportation Engineering Elżbieta Macioszek 2022-01-03 This book presents many valuable tips for making decisions related to traffic flow in the transport networks. The knowledge base in practical examples, as well as the decision support systems described in this book, finds interest among people who face the daily challenge of searching for solutions to the problems of contemporary transport networks and systems. The publication is therefore addressed to local authorities related to the planning and development of development strategies for selected areas with regard to transport (both in the urban and regional dimension) and to representatives of business and industry, as people directly involved in the implementation of traffic engineering solutions. The tips contained in individual sections of the publication allow to look at a given problem in an advanced way and facilitate the selection of the appropriate strategy (among others, in relation to the evaluation of BEV and FCHEV electric vehicles in the creation of a sustainable transport systems, development of ecological public transport on the example of selected cities, impact of drivers' waiting time on the gap acceptance at median, uncontrolled T-intersections). In turn, due to a new approach to theoretical models (including, inter alia, the application of genetic algorithms for the planning of urban rail transportation system, comprehensive estimate of life cycle costs of new technical systems using reliability verification algorithm, application and comparison of machine learning algorithms in traffic signals prediction), the publication also interests scientists and researchers carrying out research in this area.
*No Sex, No Sleep :* Pat Fitzpatrick 2018-06-01 No Sex, No Sleep tells the unvarnished truth about fatherhood. Forget about magic moments and bonding, this is about puke, wet-wipes and enjoying the sex life of a hermit. Pat Fitzpatrick wants to tell new dads what they can expect in the first few years of their child's life, and give them a right good laugh along the way. The book is based on Fitzpatrick's popular 'Dad's View' column and covers everything from buggy shopping, the labour ward, naming your child, bringing them home and dealing with the in-laws, to later issues such as choosing a school, time-outs, toilet training and much more. Written in short, digestible chunks No Sex, No Sleep can be picked up and put down as the mood takes you, and will make an ideal present for a first-time dad. It will also strike a note with any dad with small kids, or any mom out there who wants to know what their man is really thinking. Which is not much, other than I'd love to go to sleep for a month.
Fuel Cell Fundamentals Ryan O'Hayre 2016-05-02 A complete, up-to-date, introductory guide to fuel cell technology and application Fuel Cell Fundamentals provides a thorough introduction to the principles and practicalities behind fuel cell technology. Beginning with the underlying concepts, the discussion explores fuel cell thermodynamics, kinetics, transport, and modeling before moving into the application side with guidance on system types and design, performance, costs, and environmental impact. This new third edition has been updated with the latest technological advances and relevant calculations, and enhanced chapters on advanced fuel cell design and electrochemical and hydrogen energy systems. Worked problems, illustrations, and application examples throughout lend a real-world perspective, and end-of chapter review questions and mathematical problems reinforce the material learned. Fuel cells produce more electricity than batteries or combustion engines, with far fewer

emissions. This book is the essential introduction to the technology that makes this possible, and the physical processes behind this cost-saving and environmentally friendly energy source. Understand the basic principles of fuel cell physics Compare the applications, performance, and costs of different systems Master the calculations associated with the latest fuel cell technology Learn the considerations involved in system selection and design As more and more nations turn to fuel cell commercialization amidst advancing technology and dropping deployment costs, global stationary fuel cell revenue is expected to grow from $1.4 billion to $40.0 billion by 2022. The sector is forecasted to explode, and there will be a tremendous demand for high-level qualified workers with advanced skills and knowledge of fuel cell technology. Fuel Cell Fundamentals is the essential first step toward joining the new energy revolution.

**The Event** Ude Walter Uchenna 2014-03-21 The tale brings about a myriad of characters, each interwoven with the others in a story of suspense, betrayal, lust, love and, at times, humour. Nobel laureate Frederick Ekene is going to be honoured at a gala in the city of Abuja, an event that will herald his climb from disgrace back up into the public eye. The event is slated to be a grand one attended by the important and not-so-important of the city, many of whom plan to attend with other intentions aside celebrating Frederick Ekene.

**Green Growth: Managing the Transition to a Sustainable Economy** Diego A. Vazquez-Brust 2012-05-24 This volume is a practical guide that helps the reader build a quick, evidence-based understanding of green-growth strategies and challenges. Its cogent analysis of real-life case studies enables policy makers and company executives identify successful strategies they can adopt, and pitfalls they can avoid, in drafting and implementing green growth policies. The contributors' empirical assessment of these studies identifies the structural conditions required for economic growth to be compatible with environmental sustainability and how the transition to a new economic paradigm should be managed. A crucial addition to the debate now beginning in earnest around the world, this volume attempts to understand how we can nurture a new-born model of sustainable growth and help it evolve to maturity.

Computational Science and Its Applications – ICCSA 2021 Osvaldo Gervasi 2021-09-10 The ten-volume set LNCS 12949 – 12958 constitutes the proceedings of the 21st International Conference on Computational Science and Its Applications, ICCSA 2021, which was held in Cagliari, Italy, during September 13 – 16, 2021. The event was organized in a hybrid mode due to the Covid-19 pandemic.The 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions. The books cover such topics as multicore architectures, mobile and wireless security, sensor networks, open source software, collaborative and social computing systems and tools, cryptography, human computer interaction, software design engineering, and others. Part III of the set icludes papers on Information Systems and Technologies and the proceeding of the following workshops: International Workshop on Automatic landform classification: spatial methods and applications (ALCSMA 2021); International Workshop on Application of Numerical Analysis to Imaging Science (ANAIS 2021); International Workshop on Advances in information Systems and Technologies for Emergency management, risk assessment and mitigationbased on the Resilience concepts (ASTER 2021); International Workshop on Advances in Web Based Learning (AWBL 2021).

*Daily Graphic* Ransford Tetteh 2010-07-07

**Fuel Cell** Dr. Abhik Chatterjee 2022-04-14 In the twenty-first millennium, the popularity for cleaner and more sustainable sources has become a powerful driving force in maintaining economic development and, as a result, improving human living conditions. In that regard, Fuel cells are widely acknowledged to be the foundation of clean energy, because of their high efficiency, high energy density, and low cost or no emissions. Fuel cells have recently experienced a surge in popularity. Recent progress in fuel cell system development and implementation necessitate basic scientific and technological knowledge as well as advanced techniques in fuel cell design and analysis. The content of the book has been discussed in a clear and concise way. This book contains 7 chapters. The aim of the book is to familiarize you with some ideas

about the fuel cell. The objective of this book is not to consider all parts of Fuel cells but rather to present a bird's view and understanding for the typical steps. The first chapter discusses the problems of pollution and greenhouse gas emissions, the importance of the fuel cell, as well as its benefits and drawbacks. The short history of fuel cells is presented in Chapter 2, and the applications of fuel cells in various fields are presented in Chapter 3. Chapter 4 covers fundamental electrochemistry, fuel cell technology, and so on. The various types of fuels and fuel cells are discussed in Chapter 5.Chapter 6 gives some fuel cell reactions and some important mechanisms. The last chapter, chapter 7, contains various questions and their answers.

**A Comparative Analysis of Taxes and CO2 Emissions from Passenger Cars in the Nordic Countries** Henrik Duer 2011-05-31 The report discusses how economic instruments can be used to reduce CO2 emissions from passenger cars in the Nordic countries. The analysis indicate that: the registration tax and the annual circulation tax can contribute to a reduction in the average CO2 emission from new cars; company car schemes in the Nordic countries provide incentives for larger cars and increased driving because of subsidies, and this has long term effect as a large share of new cars are registered as company cars but are used as private cars most of their lives; CO2 differentiated taxes can provide incentives to consumers to purchase CO2 efficient cars; targeted broader packages which besides providing tax incentives also offer advantages to more environmentally friendly cars can be more effective than general tax increases; transparency of targets and instruments is crucial for a large diffusion of CO2 efficient cars.

**Ukraine Investment and Business Guide Volume 1 Strategic and Practical Information** IBP USA 2013-08 Ukraine Investment and Business Guide - Strategic and Practical Information

*Intelligent Integrated Energy Systems* Peter Palensky 2018-10-26 This book presents research results of PowerWeb, TU Delft's consortium for interdisciplinary research on intelligent, integrated energy systems and their role in markets and institutions. In operation since 2012, it acts as a host and information platform for a growing number of projects, ranging from single PhD student projects up to large integrated and international research programs. The group acts in an inter-faculty fashion and brings together experts from electrical engineering, computer science, mathematics, mechanical engineering, technology and policy management, control engineering, civil engineering, architecture, aerospace engineering, and industrial design. The interdisciplinary projects of PowerWeb are typically associated with either of three problem domains: Grid Technology, Intelligence and Society. PowerWeb is not limited to electricity: it bridges heat, gas, and other types of energy with markets, industrial processes, transport, and the built environment, serving as a singular entry point for industry to the University's knowledge. Via its Industry Advisory Board, a steady link to business owners, manufacturers, and energy system operators is provided.

Sustainable Energy, 2nd Richard A. Dunlap 2018-10-11 Readers explore present and future energy needs as well as options for continued use of fossil fuels and alternative energy sources with Dunlap's SUSTAINABLE ENERGY, 2nd Edition. Individual chapters thoroughly investigate each energy approach as the book covers both current energy production and future strategies. The author assumes reader familiarity with the basic concepts of freshman-level physics and chemistry. The text emphasizes the complexity of energy issues and the need for a multidisciplinary approach to solving energy problems. Quantitative end-of-chapter problems emphasize analyzing information, correlating data from various sources, and interpreting graphical data and interpolate values. Readers see real problems in producing and using energy as they realize that while exact calculations are important, a broad-based analysis is often most appropriate. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Fuel Cell Systems Explained** Andrew L. Dicks 2018-03-14 Since publication of the first edition of Fuel Cell Systems Explained, three compelling drivers have supported the continuing development of fuel cell technology. These are: the need to maintain energy security in an energy-hungry world, the desire to move towards

zero-emission vehicles and power plants, and the mitigation of climate change by lowering of CO2 emissions. New fuel cell materials, enhanced stack performance and increased lifetimes are leading to the emergence of the first truly commercial systems in applications that range from fork-lift trucks to power sources for mobile phone towers. Leading vehicle manufacturers have embraced the use of electric drive-trains and now see hydrogen fuel cells complementing advanced battery technology in zero-emission vehicles. After many decades of laboratory development, a global but fragile fuel cell industry is bringing the first commercial products to market. This thoroughly revised edition includes several new sections devoted to, for example, fuel cell characterisation, improved materials for low-temperature hydrogen and liquid-fuelled systems, and real-world technology implementation. Assuming no prior knowledge of fuel cell technology, the third edition comprehensively brings together all of the key topics encompassed in this diverse field. Practitioners, researchers and students in electrical, power, chemical and automotive engineering will continue to benefit from this essential guide to the principles, design and implementation of fuel cell systems.

**Adventures in Experience Design** Carolyn Chandler 2013-12-06 Looks at the core concepts of user experience design and offers a variety of activities and exercises for individuals and groups.

*Der Antrieb von morgen 2018* Johannes Liebl 2018-05-11 Einer der inhaltlichen Schwerpunkte des Tagungsbands zur ATZlive-Veranstaltung "Der Antrieb von morgen 2018" werden Energieträger, insbesondere optimierte Kraftstoffe sein. Die Tagung ist eine unverzichtbare Plattform für den Wissens- und Gedankenaustausch von Forschern und Entwicklern aller Unternehmen und Institutionen, die dieses Ziel verfolgen.

**Graphic Sports** Felix Abayateye 2010-05-07

**Social Research** Bruce Curtis 2011-11-14 Original, fresh and relevant this is a theoretically-informed practical guide to researching social relations. The text provides a mixed methods approach that challenges historical divisions between quantitative and qualitative research. It adopts a multidisciplinary approach to social science research, drawing from areas such as sociology, social psychology and social anthropology. Explicitly addressing the concerns of emergent researchers it provides both a 'how to' account of social research and an understanding of the main factors that contextualize research by discussing 'why do' social scientists work this way. Throughout the twelve comprehensive chapters procedural (how to) accounts and contextual (why do) issues are usefully applied to major themes and substantive questions. These key themes include: (1) Research design (2) The practices of research and emergent researchers: Beyond ontology, epistemology and methodology (3) The impact of technology on research (4) Putting the research approach in context. A superb teaching text this book will be relished by lecturers seeking an authoritative introduction to social research and by students who want an accessible, enriching text to guide and inspire them.

*Environmental Assessment of Renewable Energy Conversion Technologies* Paris A. Fokaides 2022-06-24 Environmental Assessment of Renewable Energy Conversion Technologies provides state-of-the-art coverage in both non-fossil energy conversion and storage techniques, as well as in their environmental assessment. This includes goal and scope, analysis boundaries, inventory and the impact assessment employed for the evaluation of these applications, as well as the environmental footprint of the technologies. The book compiles information currently available only in different sources concerning the environmental assessment of sustainable energy technologies, allowing for the comparative assessments of different technologies given specific boundary conditions, such as renewable potential and other specific features of discussed technologies. It offers readers a comprehensive overview of the entire energy supply chain, namely from production to storage, by allowing the consideration of different production and storage combinations, based on their environmental assessment. Provides an overview of the environmental assessment process of renewable energy conversion and storage technologies Includes state-of-the-art approaches and techniques for the comprehensive environmental assessment of individual sustainable energy

conversion and storage technologies and their applications Features comparative assessments of different technologies

Future-Proofing Fuel Cells Martin David 2021-08-12 As the world accelerates towards a renewable energy transition, the demand for critical raw materials (CRMs) for energy generation, conversion, and storage technologies is seeing a drastic increase. Such materials are not only subject to limited supply and extreme price volatility but can also represent serious burdens to the environment, to human health, and also to socio-political systems. Taking an interdisciplinary perspective, this book provides a novel perspective on the discussion about material dependencies of energy technologies. It examines CRMs use in fuel cells, an emerging energy conversion technology, and discusses governance strategies for early-stage fuel cell development to predict and avoid potential issues. This will be an invaluable resource for researchers in energy studies, engineering, sociology and political science as well as those with a general interest in this field looking for an accessible overview.

*BRAZILIAN X CHINESE AUTOMOBILE INDUSTRY: PERSPECTIVE OF GROWTH AND DEVELOPMENT FOR SOUTH AMERICA 2010/2012* Xinye Kang ABSTRACT Since 1992, when the president Dernando Collor de Melo opened the Brazilian automibile market to the international products, the share of foreign brands in this market has increased. Nowadays, the growth of the members of the BRICS in the international automobile market has become more visible; purchase or in the manufacturing either, the numbers of MERCOSUR are quite relevant, due to the strength of the internal market. Nevertheless, China might be a competitive force due to its industrial development and exportations. This research has searched for further information and the data from the sectors in the Brazilian and Chinese automobile markets and has analyzed the information collected, in order to build a scenario that can be used by the Brazilian and Chinese students and by the firms that work in the sector, as well.

**Ukraine Export-Import ,Trade & Business Directory Volume 1 Strategic Information and Contacts** IBP, Inc 2009-03-30 2011 Updated Reprint. Updated Annually. Ukraine Export-Import, Trade and Business Directory

*Russia Automobile Industry Directory - Strategic Information and Contacts* IBP, Inc. 2009-03-30 Russia Automobile Industry Directory

**Hydrogen Infrastructure for Energy Applications** Hanane Dagdougui 2018-02-03 Hydrogen Infrastructure for Energy Applications: Production, Storage, Distribution and Safety examines methodologies, new models and innovative strategies for the optimization and optimal control of the hydrogen logistic chain, with particular focus on a network of integrated facilities, sources of production, storage systems, infrastructures and the delivery process to the end users through hydrogen refueling stations. The book discusses the main motivations and criteria behind the adoption of hydrogen as an energy carrier or future fuel alternative. It presents current research in hydrogen production processes, especially from renewable energy sources, as well as storage and distribution. The book also reviews methods to model hydrogen demand uncertainties and challenges for the design of the future hydrogen supply chain. The authors go on to explore the network planning of hydrogen infrastructures, the safety and risk issues in hydrogen logistics and their future expectations. Energy engineering professionals, researchers and graduate students will find this a helpful resource to understand the methodologies used to assess the feasibility for developing hydrogen supply chains, hydrogen infrastructure and safety practices. Energy analysts and government agents can benefit from the book's detailed discussion of hydrogen energy applicability. Describes in detail the current state of the available approaches for the planning and modeling of the hydrogen infrastructure Discusses safety issues related to hydrogen in different components of its logistic chain and the methodological approach to evaluate risks that results from hydrogen accidents, including a mathematical model to assess the hazard and consequences of an accident scenario of hydrogen in pipelines Proposes a decision support system for hydrogen energy exploitation, focusing on some specific planning aspects, such as selection of locations with high hydrogen production, based mainly on the use of solar and wind energies Presents a short-term scenario of hydrogen distribution for

automotive use, with a concrete, detailed, operative plan for a network of refueling service stations for the hydrogen economy

Every Breath You Take Mark Broomfield 2020-10-06 A leading authority in the field takes readers on a fascinating and surprising journey through the atmosphere—from our lungs to outer space—that will leave readers breathless. With seven million early deaths each year linked to air pollution, air quality is headline news around the world. But even though we breathe in and out every few seconds, few of us really know what's in the air all around us. In Every Breath You Take, air quality specialist—and full-time breather—Dr. Mark Broom connects the dots from the atmosphere on distant planets to the holes in the ozone layer to the particles in our lungs. How do we measure air pollution and what on earth is an odor panel? Why are property prices higher upwind of cities? And will our grandchildren inherit an atmosphere worth breathing? With keen insights on the atmospheric effects of climate change, industrial air pollution, and urbanization in the twenty-first century, Every Breath You Take combines the latest scientific research with Mark's personal stories to answer these questions and many more in a readable and surprising journey through the atmosphere.

**Smart Grid and Enabling Technologies** Shady S. Refaat 2021-07-27 Discover foundational topics in smart grid technology as well as an exploration of the current and future state of the industry As the relationship between fossil fuel use and climate change becomes ever clearer, the search is on for reliable, renewable and less harmful sources of energy. Sometimes called the electronet or the energy Internet, smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical grid and deliver electricity more efficiently and reliably. Smart Grid and Enabling Technologies delivers a complete vision of smart grid technology and applications, including foundational and fundamental technologies, the technology that enables smart grids, the current state of the industry, and future trends in smart energy. The book offers readers thorough discussions of modern smart grid technology, including advanced metering infrastructure, net zero energy buildings, and communication, data management, and networks in smart grids. The accomplished authors also discuss critical challenges and barriers facing the smart grid industry as well as trends likely to be of import in its future development. Readers will also benefit from the inclusion of: A thorough introduction to smart grid architecture, including traditional grids, the fundamentals of electric power, definitions and classifications of smart grids, and the components of smart grid technology An exploration of the opportunities and challenges posed by renewable energy integration Practical discussions of power electronics in the smart grid, including power electronics converters for distributed generation, flexible alternating current transmission systems, and high voltage direct current transmission systems An analysis of distributed generation Perfect for scientists, researchers, engineers, graduate students, and senior undergraduate students studying and working with electrical power systems and communication systems. Smart Grid and Enabling Technologies will also earn a place in the libraries of economists, government planners and regulators, policy makers, and energy stakeholders working in the smart grid field.

**Automotive FDI in Emerging Europe** A. J. Jacobs 2017-06-19 This book examines the dramatic increase in automotive assembly plants in the former Socialist Central European (CE) nations of Czechia, East Germany, Hungary, Poland, and Slovakia from 1989 onwards. Enticed by relatively lower-wage labour and significant government incentives, the world's largest automakers have launched more than 20 passenger car assembly complexes in CE nations, with production accelerating dramatically since 2001. As a result, the annual passenger car production in Western Europe declined by more than 20% between 2001 and 2015, and alternatively in the CEE it increased by nearly 170% during this period. Drawing on case studies of 25 current and former foreign-run assembly plants, the author presents a rare historical account of automotive foreign assembly plants in the CE following this dramatic geographic shift. This book will expand the knowledge of policy-makers in Europe in relation to their pursuits of FDI and will be of great interest to scholars and students of business, economic history, political science, and

development.

Working as a Mechanic in Your Community Mary-Lane Kamberg 2015-07-15 Mechanics, also known as automotive service technicians, make vital contributions to their communities; their work on cars and other vehicles helps to keep streets safe and limit emissions. In this resource, readers will find everything they need to know about becoming a mechanic: what the job involves, what skills are needed, how to prepare, where to find training and job openings, and the future outlook for men and women in the field. Being a mechanic is an exciting career option for teens who enjoy technology and working with their hands.