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**Climate Change 2014** - Groupe d'experts intergouvernemental sur l'évolution du climat 2015

**Digest of Education Statistics** - 1969

Contains information on a variety of subjects within the field of education statistics, including the number of schools and colleges, enrollments, teachers, graduates, educational attainment, finances, Federal funds for education, libraries, international education, and research and development.

*Preventing Drug Use Among Children and Adolescents* - Elizabeth B. Robertson 2003

One of the goals of the Nat. Institute on Drug Abuse is to help the public understand the causes of drug abuse and to prevent its onset. This is a summary of topics covered in the newest ed. of the guide, "Preventing Drug Use Among Children and Adolescents", which includes updated principles, new questions and answers, new program information, and expanded references and resources. This In Brief edition summarizes sections of the guide for community use. Chapters: Prevention Principles; Risk Factors and Protective Factors; Planning for Drug Abuse Prevention in the Community; Applying Prevention Principles to Drug Abuse Prevention Programs; Examples of Research-Based Drug Abuse Prevention Programs; and Selected Resources and References.

*A Textbook of Gynecology for Less-Resourced Locations* - Heleen van Beekhuizen 2012-10

This textbook seeks to support young specialists, non-gynecologist doctors and other health personnel in low-resourced settings by providing evidence-based information about low-tech diagnostic and treatment options for common gynecological conditions such as gynecological cancers, problems in early pregnancy, contraception and gynecological bleeding disorders.

**Necessity, Use, and Care of Laboratory Dogs at the U.S. Department of Veterans Affairs** - National Academies of Sciences, Engineering, and Medicine 2020-10-28

For many years, laboratory dogs have served as important animal models for biomedical research that has advanced human health. Conducted at the request of the U.S. Department of Veterans Affairs (VA), this report assesses whether laboratory dogs are or will continue to be necessary for biomedical research related to the VA's mission. The report concludes that using laboratory dogs in research at the VA is scientifically necessary for only a few areas of current biomedical research. The report recommends that the VA adopt an expanded set of criteria for determining when it is scientifically necessary to use laboratory dogs in VA biomedical research; that the VA promote the development and use of alternatives to laboratory dogs; and highlights opportunities for the VA to enhance the welfare of laboratory dogs that are being used in biomedical research areas for which they have been deemed necessary.

*Numerical Methods in Engineering with Python 3* - Jaan Kiusalaas 2013-01-21

Provides an introduction to numerical methods for students in engineering. It uses Python 3, an easy-to-use, high-level programming language.

*Advanced Characterization Techniques for Thin Film Solar Cells* - Daniel Abou-Ras 2016-07-13

The book focuses on advanced characterization methods for thin-film solar cells that have proven their relevance both for academic and corporate photovoltaic research and development. After an introduction to thin-film photovoltaics, highly experienced experts report on device and materials characterization methods such as electroluminescence analysis, capacitance spectroscopy, and various microscopy methods. In the

final part of the book simulation techniques are presented which are used for ab-initio calculations of relevant semiconductors and for device simulations in 1D, 2D and 3D. Building on a proven concept, this new edition also covers thermography, transient optoelectronic methods, and absorption and photocurrent spectroscopy.

**Life Insurance Fact Book** - 1992

*Prognostics and Health Management of Electronics* - Michael G. Pecht 2018-08-21

An indispensable guide for engineers and data scientists in design, testing, operation, manufacturing, and maintenance A road map to the current challenges and available opportunities for the research and development of Prognostics and Health Management (PHM), this important work covers all areas of electronics and explains how to: assess methods for damage estimation of components and systems due to field loading conditions assess the cost and benefits of prognostic implementations develop novel methods for in situ monitoring of products and systems in actual life-cycle conditions enable condition-based (predictive) maintenance increase system availability through an extension of maintenance cycles and/or timely repair actions; obtain knowledge of load history for future design, qualification, and root cause analysis reduce the occurrence of no fault found (NFF) subtract life-cycle costs of equipment from reduction in inspection costs, downtime, and inventory Prognostics and Health Management of Electronics also explains how to understand statistical techniques and machine learning methods used for diagnostics and prognostics. Using this valuable resource, electrical engineers, data scientists, and design engineers will be able to fully grasp the synergy between IoT, machine learning, and risk assessment.

*Transportation Energy Data Book* - 1984

*Fundamentals of Silicon Carbide Technology* - Tsunenobu Kimoto 2014-11-24

A comprehensive introduction and up-to-date reference to SiC power semiconductor devices covering topics from material properties to applications Based on a number of breakthroughs in SiC material science and fabrication technology in the 1980s and 1990s, the first SiC Schottky barrier diodes (SBDs) were released as commercial products in 2001. The SiC SBD market has grown significantly since that time, and SBDs are now used in a variety of power systems, particularly switch-mode power supplies and motor controls. SiC power MOSFETs entered commercial production in 2011, providing rugged, high-efficiency switches for high-frequency power systems. In this wide-ranging book, the authors draw on their considerable experience to present both an introduction to SiC materials, devices, and applications and an in-depth reference for scientists and engineers working in this fast-moving field. Fundamentals of Silicon Carbide Technology covers basic properties of SiC materials, processing technology, theory and analysis of practical devices, and an overview of the most important systems applications. Specifically included are: A complete discussion of SiC material properties, bulk crystal growth, epitaxial growth, device fabrication technology, and characterization techniques. Device physics and operating equations for Schottky diodes, pin diodes, JBS/MPS diodes, JFETs, MOSFETs, BJTs, IGBTs, and thyristors. A survey of power electronics applications, including switch-mode power supplies, motor drives, power converters for electric vehicles, and converters for renewable energy sources. Coverage of special applications, including microwave devices, high-

temperature electronics, and rugged sensors. Fully illustrated throughout, the text is written by recognized experts with over 45 years of combined experience in SiC research and development. This book is intended for graduate students and researchers in crystal growth, material science, and semiconductor device technology. The book is also useful for design engineers, application engineers, and product managers in areas such as power supplies, converter and inverter design, electric vehicle technology, high-temperature electronics, sensors, and smart grid technology.

*Women in the Labor Force* - Katharine P. Utgoff 2004-06

Over the past three decades, a significantly greater proportion of women have participated in the American workforce, & women have made substantial inroads into higher-paying occupations. This report presents historical & current labor force & earnings data for women & men from the Current Population Survey (CPS). The CPS is a national monthly survey of approx. 60,000 households, conducted by the U.S. Census Bureau for the Bureau of Labor Statistics (BLS). Unless otherwise noted, data are annual averages from the CPS. Statistical tables. Numerous charts & tables.

*Intelligent Fault Diagnosis and Prognosis for Engineering Systems* - George Vachtsevanos 2006-09-29

Expert guidance on theory and practice in condition-based intelligent machine fault diagnosis and failure prognosis *Intelligent Fault Diagnosis and Prognosis for Engineering Systems* gives a complete presentation of basic essentials of fault diagnosis and failure prognosis, and takes a look at the cutting-edge discipline of intelligent fault diagnosis and failure prognosis technologies for condition-based maintenance. It thoroughly details the interdisciplinary methods required to understand the physics of failure mechanisms in materials, structures, and rotating equipment, and also presents strategies to detect faults or incipient failures and predict the remaining useful life of failing components. Case studies are used throughout the book to illustrate enabling technologies. *Intelligent Fault Diagnosis and Prognosis for Engineering Systems* offers material in a holistic and integrated approach that addresses the various interdisciplinary components of the field—from electrical, mechanical, industrial, and computer engineering to business management. This invaluable helpful book: \* Includes state-of-the-art algorithms, methodologies, and contributions from leading experts, including cost-benefit analysis tools and performance assessment techniques \* Covers theory and practice in a way that is rooted in industry research and experience \* Presents the only systematic, holistic approach to a strongly interdisciplinary topic

**Global School Feeding Sourcebook** - Lesley Drake 2016

"Distributed by World Scientific Publishing, Hackensack, NJ."

**Stripe Rust** - Xianming Chen 2017-07-11

This book comprehensively introduces stripe rust disease, its development and its integral control. Covering the biology, genetics, genome, and functional genomics of the pathogen, it also discusses host and non-host resistance, their interactions and the epidemiology of the disease. It is intended for scientists, postgraduates and undergraduate studying stripe rust, plant pathology, crop breeding, crop protection and agricultural science, but is also a valuable reference book for consultants and administrators in agricultural businesses and education.

*Capital Markets and Voluntary Disclosures on CSR and Human Capital* - Ramin Gamerschlag 2011

**World Trade Statistical Review 2019** - World Trade Organization 2019-10-07

A comprehensive overview of the latest developments in world trade, covering the details of merchandise trade by product and trade in commercial services

**House of Commons Procedure and Practice** - Canada. Parliament. House of Commons 2000

This reference book is primarily a procedural work which examines the many forms, customs, and practices which have been developed and established for the House of Commons since Confederation in 1867. It provides a distinctive Canadian perspective in describing procedure in the House up to the end of the first session of the 36th Parliament in Sept. 1999. The material is presented with full commentary on the historical circumstances which have shaped the current approach to parliamentary business. Key Speaker's rulings and statements are also documented and the considerable body of practice, interpretation, and precedents unique to the Canadian House of Commons is amply illustrated. Chapters of the book cover the following: parliamentary institutions; parliaments and ministries; privileges and immunities; the House and

its Members; parliamentary procedure; the physical & administrative setting; the Speaker & other presiding officers; the parliamentary cycle; sittings of the House; the daily program; oral & written questions; the process of debate; rules of order & decorum; the curtailment of debate; special debates; the legislative process; delegated legislation; financial procedures; committees of the whole House; committees; private Members' business; public petitions; private bills practice; and the parliamentary record. Includes index.

*Electrochemistry at Metal and Semiconductor Electrodes* - Norio Sato 1998-10-09

*Electrochemistry at Metal and Semiconductor Electrodes* covers the structure of the electrical double layer and charge transfer reactions across the electrode/electrolyte interface. The purpose of the book is to integrate modern electrochemistry and semiconductor physics, thereby, providing a quantitative basis for understanding electrochemistry at metal and semiconductor electrodes. Electrons and ions are the principal particles which play the main role in electrochemistry. This text, therefore, emphasizes the energy level concepts of electrons and ions rather than the phenomenological thermodynamic and kinetic concepts on which most of the classical electrochemistry texts are based. This rationalization of the phenomenological concepts in terms of the physics of semiconductors should enable readers to develop more atomistic and quantitative insights into processes that occur at electrodes. The book incorporates many traditional disciplines of science and engineering such as interfacial chemistry, biochemistry, enzyme chemistry, membrane chemistry, metallurgy, modification of solid interfaces, and materials' corrosion. The text is intended to serve as an introduction for the study of advanced electrochemistry at electrodes and is aimed towards graduates and senior undergraduates studying materials and interfacial chemistry or those beginning research work in the field of electrochemistry.

**Planetary Atmospheres** - C. Sagan 2012-12-06

Proceedings of the IAU Symposium No. 40, held in Marfa, Texas, U.S.A., October 26-31, 1969

**Electrochemical Components** - Marie-Cécile Pera 2013-08-02

This book focuses on the methods of storage commonly used in hybrid systems. After an introductory chapter reviewing the basics of electrochemistry, Chapter 2 is given over to the storage of electricity in the form of hydrogen. Once hydrogen has been made, we have to be able to convert it back into electricity on demand. This can be done with another energy converter: a fuel cell, the subject of Chapter 3. Such a system is unable to deliver significant dynamics in terms of storage and release of electricity and needs to be supplemented with another solution: a detailed study of supercapacitors is provided in Chapter 4. While the storage systems touched upon in the previous three chapters (hydrogen batteries and supercapacitors) both exhibit advantageous characteristics, at present they are still relatively costly. Thus, the days of the electrochemical accumulator by no means appear to be numbered just yet. This will therefore be the topic of Chapter 5. Finally, on the basis of the elements laid down in the previous chapters, Chapter 6 will focus on electrical hybridization of these storage systems, with a view to enhancing the performance (in terms of energy, lifetime, cost, etc.) of the newly formed system. Aimed at an audience of researchers, industrialists, academics, teachers and students, many exercises, along with corrected solutions, are provided throughout the book. Contents 1. Basic Concepts of Electrochemistry used in Electrical Engineering. 2. Water Electrolyzers. 3. Fuel Cells. 4. Electrical Energy Storage by Supercapacitors. 5. Electrochemical Accumulators. 6. Hybrid Electrical System. About the Authors Marie-Cécile Péra is a Full Professor at the University of Franche-Comte in France and Deputy Director of the FEMTO-ST Institute (CNRS). Her research activities include modeling, control and diagnosis of electric power generation systems (fuel cells – PEMFC and SOFC, supercapacities, batteries) for transportation and stationary applications. She has contributed to more than 180 articles in international journals and conferences. Daniel Hissel is Full Professor at the University of Franche-Comte in France and Director of the Fuel Cell Lab Research Federation (CNRS). He also leads a research team devoted to hybrid electrical systems in the FEMTO-ST Institute (CNRS). He has published more than 250 research papers on modeling, control, diagnostics and prognostics of hybrid electrical systems. Hamid Gualous is Full Professor at the University of Caen Lower Normandy in France and director of the LUSAC laboratory. His current research interests include power electronics, electric energy storage, power and energy systems and energy management. Christophe Turpin is Full Researcher at the CNRS (French National Center for Scientific Research). He is responsible

for hydrogen activities within the Laboratory LAPLACE, Toulouse, France. His research activities include the characterization and modeling of fuel cells and electrolyzers, the state of health of these components, and their hybridization with other electrochemical components (ultracapacitors, batteries) within optimized energy systems for stationary and aeronautical applications.

**Statistical Abstract of the United States, 2012** - Census Bureau 2011-09

Statistical Abstract presents data on the social, political, and economic organization of the United States, including detailed tables on population; health; education; geography and environment; elections; federal government; finances and employment; national defense and veterans affairs; income; communications; law; energy; science; business; transportation; agriculture; construction and housing; and comparative international statistics. Along with appendices and maps, special features include: guides to tabular presentation; sources of statistics; state statistical abstracts; foreign statistical abstracts; an industrial outlook; telephone numbers; metropolitan area concepts and components; and a subject index.

*International Trade Statistics 2015* - World Tourism Organization 2016-03-29

International Trade Statistics 2015 provides a detailed overview of the latest developments in world trade, covering both merchandise and services trade as well as trade measured in value-added terms. A key developments section at the start of each chapter uses charts and maps to illustrate the most important trends. More detailed data are provided in a variety of tables covering specific aspects of world trade up to the end of 2014. A chapter on methodology explains how the data are compiled. International Trade Statistics 2015 serves as an invaluable reference tool for researchers, policymakers, and anyone interested in international trade.

*Women in the Labor Force* - 2007

*Sexually Transmitted Disease Surveillance* - 1997

*Inorganic Thermoelectric Materials* - Anthony V Powell 2021-12-06

Thermoelectric devices convert a heat flux directly into electrical power. They afford opportunities to achieve efficiency savings in a variety of applications, through the conversion of otherwise waste heat into useful electrical energy. Operated in reverse mode, they provide effective thermal management in areas ranging from cooling of electronic components to battery conditioning in electric vehicles. Implementation of thermoelectric technology requires materials with improved performance and stability, containing readily-available and inexpensive elements. A range of thermoelectric materials for use in different temperature regimes has emerged. Knowledge of the complex relationship between composition, structure and physical properties is central to understanding the performance of these advanced materials. This book provides both an introduction to the field of thermoelectrics and a survey of the state-of-the-art. Chapters review the important new families of advanced materials that have emerged and taken the field beyond traditional thermoelectric materials such as Bi<sub>2</sub>Te<sub>3</sub>, PbTe and SiGe. The emphasis is on the relationship between chemical composition, structure over a range of length scales and the physical properties that underlie performance. Edited by a leader in the field, and with contributions from global experts, *Inorganic Thermoelectric Materials* serves as an introduction to thermoelectric materials and is accessible to advanced undergraduates and postgraduates, as well as experienced researchers

*Improving Healthcare Quality in Europe Characteristics, Effectiveness and Implementation of Different Strategies* - OECD 2019-10-17

This volume, developed by the Observatory together with OECD, provides an overall conceptual framework for understanding and applying strategies aimed at improving quality of care. Crucially, it summarizes available evidence on different quality strategies and provides recommendations for their implementation. This book is intended to help policy-makers to understand concepts of quality and to support them to evaluate single strategies and combinations of strategies.

**Artificial Intelligence and International Economic Law** - Shin-yi Peng 2021-10-14

Artificial intelligence (AI) technologies are transforming economies, societies, and geopolitics. Enabled by the exponential increase of data that is collected, transmitted, and processed transnationally, these changes have important implications for international economic law (IEL). This volume examines the dynamic

interplay between AI and IEL by addressing an array of critical new questions, including: How to conceptualize, categorize, and analyze AI for purposes of IEL? How is AI affecting established concepts and rubrics of IEL? Is there a need to reconfigure IEL, and if so, how? Contributors also respond to other cross-cutting issues, including digital inequality, data protection, algorithms and ethics, the regulation of AI-use cases (autonomous vehicles), and systemic shifts in e-commerce (digital trade) and industrial production (fourth industrial revolution). This title is also available as Open Access on Cambridge Core.

**Physics of Ferroelectrics** - Karin M. Rabe 2007-07-20

The past two decades have witnessed revolutionary breakthroughs in the understanding of ferroelectric materials, both from the perspective of theory and experiment. This book addresses the paradigmatic shifts in understanding brought about by these breakthroughs, including the consideration of novel fabrication methods and nanoscale applications of these materials, and new theoretical methods such as the effective Hamiltonian approach and density functional theory.

*IBM Power 520 Technical Overview* - Scott Vetter 2010-04-02

This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server, machine type model 8203-E4A. The goal of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: - The POWER6 processor, available at frequencies of 4.2 GHz and 4.7 GHz. - Specialized POWER6 DDR2 memory that provides greater bandwidth, capacity, and reliability. - The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter that brings native hardware virtualization to this server. - EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. - PowerVM virtualization technology. - Mainframe continuous availability brought to the entry server environment. This Redpaper expands the current set of IBM Power System documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system. This Redpaper does not replace the latest marketing materials and tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

*Women in the labor force* - 2006

*Priming-Mediated Stress and Cross-Stress Tolerance in Crop Plants* - Mohammad Anwar Hossain 2020-01-22

Priming-Mediated Stress and Cross-Stress Tolerance in Crop Plants provides the latest, in-depth understanding of the molecular mechanisms associated with the development of stress and cross-stress tolerance in plants. Plants growing under field conditions are constantly exposed, either sequentially or simultaneously, to many abiotic or biotic stress factors. As a result, many plants have developed unique strategies to respond to ever-changing environmental conditions, enabling them to monitor their surroundings and adjust their metabolic systems to maintain homeostasis. Recently, priming mediated stress and cross-stress tolerance (i.e., greater tolerance to a second, stronger stress after exposure to a different, milder primary stress) have attracted considerable interest within the scientific community as potential means of stress management and for producing stress-resistant crops to aid global food security. *Priming-Mediated Stress and Cross-Stress Tolerance in Crop Plants* comprehensively reviews the physiological, biochemical, and molecular basis of cross-tolerance phenomena, allowing researchers to develop strategies to enhance crop productivity under stressful conditions and to utilize natural resources more efficiently. The book is a valuable asset for plant and agricultural scientists in corporate or government environments, as well as educators and advanced students looking to promote future research into plant stress tolerance. Provides comprehensive information for developing multiple stress-tolerant crop varieties Includes in-depth physiological, biochemical, and molecular information associated with cross-tolerance Includes contribution from world-leading cross-tolerance research group Presents color images and diagrams for effective communication of key concepts

**Growth Hormone Deficiency in Adults** - Jens O. L. Jørgensen 2005-01-01

It has been known for over 40 years that GH-deficient children benefit from replacement with the hormone. But GH, essential for longitudinal growth, also plays a role after completion of final height. With the introduction of biosynthetic human GH 20 years ago, the use of GH was no longer restricted to severe

growth retardation in hypopituitary children. This book will take the reader behind the myths of GH and into the real world of clinical endocrinology. The contributions stem from recognized clinicians and scientists who have been working in the field for decades. The contents encompass traditional end points of GH therapy such as body composition, bone biology and physical performance. Attention is also devoted to diagnostic aspects and side effects. Additional features range from clinical epidemiology to quality of life, and novel areas such as the impact of traumatic brain injury on pituitary function are also covered. The present volume of *Frontiers of Hormone Research* is essential reading for health care professionals interested in clinical endocrinology and GH.

*Taxpayer Advocate Service is Here to Help* - United States. Taxpayer Advocate Service

### **Medical and Dental Expenses** - 1990

*Power Electronics in Renewable Energy Systems and Smart Grid* - Bimal K. Bose 2019-06-27

The comprehensive and authoritative guide to power electronics in renewable energy systems Power electronics plays a significant role in modern industrial automation and high- efficiency energy systems. With contributions from an international group of noted experts, *Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications* offers a comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids. The authors cover information on a variety of energy systems including wind, solar, ocean, and geothermal energy systems as well as fuel cell systems and bulk energy storage systems. They also examine smart grid elements, modeling, simulation, control, and AI applications. The book's twelve chapters offer an application-oriented and tutorial viewpoint and also contain technology status review. In addition, the book contains illustrative examples of applications and discussions of future perspectives. This important resource: Includes descriptions of power semiconductor devices, two level and multilevel converters, HVDC systems, FACTS,

and more Offers discussions on various energy systems such as wind, solar, ocean, and geothermal energy systems, and also fuel cell systems and bulk energy storage systems Explores smart grid elements, modeling, simulation, control, and AI applications Contains state-of-the-art technologies and future perspectives Provides the expertise of international authorities in the field Written for graduate students, professors in power electronics, and industry engineers, *Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications* offers an up-to-date guide to technology and applications of a wide-range of power electronics in energy systems and smart grids.

*Transmission Line Design Manual* - Holland H. Farr 1980

[Energy Economics](#) - Subhes C. Bhattacharyya 2019-11-02

This book provides an updated and expanded overview of basic concepts of energy economics and explains how simple economic tools can be used to analyse contemporary energy issues in the light of recent developments, such as the Paris Agreement, the UN Sustainable Development Goals and new technological developments in the production and use of energy. The new edition is divided into four parts covering concepts, issues, markets, and governance. Although the content has been thoroughly revised and rationalised to reflect the current state of knowledge, it retains the main features of the first edition, namely accessibility, research-informed presentation, and extensive use of charts, tables and worked examples. This easily accessible reference book allows readers to gain the skills required to understand and analyse complex energy issues from an economic perspective. It is a valuable resource for students and researchers in the field of energy economics, as well as interested readers with an interdisciplinary background.

*Public Land Statistics* - 1996

*Source Book of Statistics of Income* -