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SELLERS ELAINE

High Wage Workers and High Wage Firms Cornell University Press

Winner of the 2016 Lambda Literary Award for Bisexual Fiction “I read *The Life and Death of Sophie Stark* with my heart in my mouth. Not only a dissection of genius and the havoc it can wreak, but also a thunderously good story.”—Emma Donoghue, New York Times bestselling author of *Room* “This novel is perceptive, subtle, funny and lingers in unexpected ways. The analysis of a woman who puts her art above all else is equal parts inspiration and warning story. Anna North makes prose look easy.”—Lena Dunham Gripping and provocative, *The Life and Death of Sophie Stark* is a haunting story of fame, love, and legacy told through the propulsive rise of an iconoclastic artist. Sophie Stark begins her filmmaking career by creating a documentary about her obsession, Daniel, a college basketball star. But when she becomes too invasive, she finds herself the victim of a cruel retribution. The humiliation doesn’t stop her. Visionary and unapologetic, Sophie begins to use stories from the lives of those around her to create movies, and as she gains critical recognition and acclaim, she risks betraying the one she loves most. Told in a chorus of voices belonging to those who knew Sophie best, *The Life and Death of Sophie Stark* is an intimate portrait of an elusive woman whose monumental talent and relentless pursuit of truth reveal the cost of producing great art. It is “not only a dissection of genius and the havoc it can wreak, but also a thunderously good story” (Emma Donoghue).

Electrical Transients in Power Systems Université de Montréal, Centre de recherche et développement en économique

PEM Fuel Cell Testing and Diagnosis covers the recent advances in PEM (proton exchange membrane) fuel cell systems, focusing on instruments and techniques for testing and diagnosis, and the application of diagnostic techniques in practical tests and operation. This book is a unique source of electrochemical techniques for researchers, scientists and engineers working in the area of fuel cells. Proton exchange membrane fuel cells are currently considered the most promising clean energy-converting devices for stationary, transportation, and micro-power applications due to their high energy density, high efficiency, and environmental friendliness. To advance research and development of this emerging technology, testing and diagnosis are an essential combined step. This book aids those efforts, addressing effects of humidity, temperature and pressure on fuel cells, degradation and failure analysis, and design and assembly of MEAs, single cells and stacks. Provides fundamental and theoretical principles for PEM fuel cell testing and diagnosis. Comprehensive source for selecting techniques, experimental designs and data analysis Analyzes PEM fuel cell degradation and failure mechanisms, and suggests failure mitigation strategies Provides principles for selecting PEM fuel cell key materials to improve durability

Holographic Universe: An Introduction John Wiley & Sons

Vitamin C is the first book to cover the history, chemistry, biochemistry, and medical importance of vitamin C and is the first to provide an in-depth, interdisciplinary study of this essential and fascinating compound. The book provides a comprehensive and systematic account of the vitamin C story, fully surveying the history of scurvy and how its cure led to the suggestion, discovery, and isolation of the vitamin, later named L-ascorbic acid. It describes in detail the vitamin's structure determination, synthesis and manufacture, and its oxidation products, derivatives and related compounds. Its key biochemical roles are fully categorized and explained, and the medical importance of the vitamin, including the recent use of so-called megadoses, is thoroughly discussed. Vitamin C will be of interest to a very wide readership and will provide useful background information and inspiration for students at various levels. It will also be relevant to the interested chemist or lay person, as well as those carrying out research in this area.

Man's Place in Nature Newnes

The principles of the First Edition--to teach students and engineers the fundamentals of electrical transients and equip them with the skills to recognize and solve transient problems in power networks and components--also guide this Second Edition. While the text continues to stress the physical aspects of the phenomena involved in these problems, it also broadens and updates the computational treatment of transients. Necessarily, two new chapters address the subject of modeling and models for most types of equipment are discussed. The adequacy of the models, their validation and the relationship between model and the physical entity it represents are also examined. There are now chapters devoted entirely to isolation coordination and protection, reflecting the revolution that metal oxide surge arresters have caused in the power industry. Features additional and more complete illustrative material--figures, diagrams and worked examples. An entirely new chapter of case studies demonstrates modeling and computational techniques as they have been applied by engineers to specific problems.

Photonic Reservoir Computing Hardpress Publishing

This book provides consultants and project managers who use SAP PS as well as PS implementation project team members with a comprehensive overview of the functions and customization options of SAP Project System. You learn how to maintain control of the entire project lifecycle, from design to planning, and from budgeting to controlling to invoicing and beyond. This unique reference provides concise and straightforward information on the many integration scenarios available for SAP Project System. Focused chapters provide you with detailed coverage of those

aspects that involve several different project phases, such as reporting or interfaces to other project management tools.

Friends and Exiles Springer Science & Business Media

This book collects the edited and reviewed contributions presented in the 3rd International Conference on Renewable Energy: Generation and Applications” ICREGA’14, organized by the UAE University in Al-Ain. This conference aims to disseminate knowledge on methods, policies and technologies related to renewable energy and it acknowledges the leadership of the UAE which committed to a 7% renewable energy target by 2020. The demands and developments in renewable energy generations and applications are rapidly growing and are facing many challenges on different levels such as basic science, engineering system design, energy policies and sustainable developments. This edition presents new contributions related to recent renewable energy case studies, developments in biofuel, energy storage, solar and wind energy, integrated systems and sustainable power production. In the spirit of the ICREGA’14, the volume has been produced after the conference so that the authors had the possibility to incorporate comments and discussions raised during the meeting. The contributions have been grouped in the following topics: - Efficient Energy Utilization - Electrical Energy Market, Management and Economics - Energy Storage Systems - Environmental Issues - Fuel Cells Systems - Green Buildings - Intelligent Energy/Power Transmission and Distribution - Solar Photovoltaic and Thermal Energy - Wind Energy Systems.

2020 IEEE Vehicle Power and Propulsion Conference (VPPC) ASTM International

The book summarizes the state-of-the-art of research on control of self-organizing nonlinear systems with contributions from leading international experts in the field. The first focus concerns recent methodological developments including control of networks and of noisy and time-delayed systems. As a second focus, the book features emerging concepts of application including control of quantum systems, soft condensed matter, and biological systems. Special topics reflecting the active research in the field are the analysis and control of chimera states in classical networks and in quantum systems, the mathematical treatment of multiscale systems, the control of colloidal and quantum transport, the control of epidemics and of neural network dynamics.

A Research Primer for Technical Communication Pointe Claire, Que. : Quebec Family History Society

Prologue Light Without light, you can’t see. Those who believe only in what they can touch can’t feel the light. Light powers life, flowers, oceans, animals, the earth, and your life. Light is such a beautiful word. It illuminates your body, your emotions, your thoughts, your soul. When you are in the dark, when you stumble, when you get lost, you panic, you fall, you give in. Thus, the blind can’t lead the blind; you need someone that can see the light. Light is a vibration frequency that travels at an unreachable speed, and, as Einstein said, any matter that travels at its speed turns into energy. This means light is transformative. And if one day, when you give up on resisting, you stop believing you are just matter and ego and you want to let that light enter through the window of your thoughts and emotions and then it illuminates your darkness, your haze; you will certainly wake up and say: “I am a purely energetic being, made of atoms and particles that travel at the speed of light and shines like it. And as such, I have come to play my part, just going through life, to keep transforming myself, like light itself.

Sutton Township, Quebec, 1850-1899 Springer

This volume brings together papers from geotechnical and civil engineers, biologists, ecologists and foresters. They discuss current problems in slope stability research and how to address them using ground bio- and eco-engineering techniques. Coverage presents studies by scientists and practitioners on slope instability, erosion, soil hydrology, mountain ecology, land use and restoration and how to mitigate these problems using vegetation.

ICREGA’14 - Renewable Energy: Generation and Applications GBK Publications

Batteries charge discharge ultra capacitors flywheels hybrid energy storage fuel cells auxiliary power SoC and SoH solar vehicles Converters rectifiers inverters motor drives power semiconductors EMI EMC generators integrated starter alternators drive trains electro magnetic compatibility power architectures 42V PowerNet X by wire electric power steering hydraulic powertrain Active suspension cruise controls remote sensing wireless sensors vehicular networking cooperative driving intelligent & autonomous vehicles active and passive safety embedded operation driver assistance virtual digital Power split fault tolerance energy management driving pattern recognition driver modelling shifting control Vehicular systems components CAD CAE virtual prototyping driving cycle design ecodriving life cycle analysis EV infrastructure V2X on board chargers AC & DC infrastructure fast, superfast, wireless, smart & conductive charging Smart Grid

Hyrdogen Storage Technologies John Wiley & Sons

During the 1970s and early 1980s, the Middle East and North Africa were perceived as being exceptionally successful, but now the region is viewed as a resounding economic and social failure. Islam is not only a religion, but also a political and social project. A major pretext of this work is to demonstrate how the tensions within Islamic movements feed directly into the economic, social, political, historical and religious arena of the region, and vice versa. An introductory chapter sets the context of the book. The core chapters of the book comprise an in-depth examination of the varied forms of oil revenue abuse. For examples, the past mismanagement of the tremendous wealth provided by oil. Following Islamic beliefs, revenue from oil should not finance wasteful consumption, but used instead for public welfare. Abstaining from interest calculations, there should be a case for keeping more oil in the ground. Indeed, oil has also stifled industrial development, and with declining oil revenues, the conflict between civilian and

military priorities intensifies. While western interests have promoted arms spending, high population-growth expenditure reinforces the reality of the count-down to the post-oil era upon the Middle Eastern and North African oil exporters. So far the governments seem unwilling or unable to adapt and react. Furthermore, in the past oil has been used as a substitute for democracy. While the large oil revenues of the 1970s and early 1980s strengthened the position of autocratic rulers and weakened the private sector, repressive regimes have made Islam a source of criticism and opposition for the Western world. Following on from this, the book then looks forward to the problem of uniting the divergent interests in the spheres of oil and Islam into a cohesive whole. The book proposes that ideally Islamic governments would synchronise the depletion of oil reserves with investment in new productive assets. Islamic governments could also find ways to combine private, domestic and foreign interests in the oil industry. The main readership for this book will be policy-makers and professionals involved in development issues for Middle Eastern and North African affairs, and those with an interest in oil politics and Islamic studies.

[Project Management with SAP Project System](#) Cambridge University Press

Fuel Cells and Hydrogen: From Fundamentals to Applied Research provides an overview of the basic principles of fuel cell and hydrogen technology, which subsequently allows the reader to delve more deeply into applied research. In addition to covering the basic principles of fuel cells and hydrogen technologies, the book examines the principles and methods to develop and test fuel cells, the evaluation of the performance and lifetime of fuel cells and the concepts of hydrogen production. *Fuel Cells and Hydrogen: From Fundamentals to Applied Research* acts as an invaluable reference book for fuel cell developers and students, researchers in industry entering the area of fuel cells and lecturers teaching fuel cells and hydrogen technology. Includes laboratory methods for fuel cell characterization and manufacture Outlines approaches in modelling components, cells and stacks Covers practical and theoretical methods for hydrogen production and storage

Nonlinear Optics and Applications John Wiley & Sons

Written by recognized experts, this edited book covers recent theoretical, experimental and applied issues in the growing field of Complex Systems and Nonlinear Dynamics. It is divided into two parts, with the first section application based, incorporating the theory of bifurcation analysis, numerical computations of instabilities in dynamical systems and discussing experimental developments. The second part covers the broad category of statistical mechanics and dynamical systems. Several novel exciting theoretical and mathematical insights and their consequences are conveyed to the reader.

Memoirs of Mistral Flammarion-Pere Castor

The proceedings set LNCS 11727, 11728, 11729, 11730, and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks, ICANN 2019, held in Munich, Germany, in September 2019. The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions. They were organized in 5 volumes focusing on theoretical neural computation; deep learning; image processing; text and time series; and workshop and special sessions.

Artificial Neural Networks and Machine Learning - ICANN 2019: Workshop and Special Sessions Springer Nature

Photonics has long been considered an attractive substrate for next generation implementations of machine-learning concepts. Reservoir Computing tremendously facilitated the realization of recurrent neural networks in analogue hardware. This concept exploits the properties of complex nonlinear dynamical systems, giving rise to photonic reservoirs implemented by semiconductor lasers, telecommunication modulators and integrated photonic chips.

[Laser Resonators, Microresonators, and Beam Control XV](#) Walter de Gruyter GmbH & Co KG

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.

[Reservoir Computing](#) Springer Nature

The collection of twenty-seven papers published has been grouped into six major categories: corrosion process characterization and modeling, applications of Kramers-Kronig transformations for evaluating the validity of data, corrosion and its inhibition by either corrosion products of specially added inhibitors, corrosion of aluminum and aluminum alloys, corrosion of steel in soils and concrete, and evaluation of coatings on metal substrates. *Photonic Instrumentation Engineering* Penguin

This practical volume provides a thorough introduction to conducting and critically reading research in technical communication, complete with exemplars of research articles for study. Offering a solid grounding in the research underpinnings of the technical communication field, this resource has been developed for use in master's level and upper-division undergraduate research methods courses in technical and professional communication.

Con Ong Wiley-Interscience

Through reading this book, you will have a better understanding on the Holographic Universe and your ability to have experiences in the Holographic Universe increases. Through keeping an open, clear mind (as you read), you can experience what the author has experienced and you will be able to understand what the author is explaining. Instead of just reading the words, read it with the intent to understand the depths of what is being explained. Keep contemplating on it until you experience and understand what is being said about the Holographic Universe. Keep reading the book again and again until you have understood it so that your ability to have experiences in the Holographic Universe increases. In this book, the explanations on the Holographic Universe are based on: 1. the guidance from God, 2. the knowledge of the Brahma Kumaris, 3. Quantum Mechanics (nothing in this book is contrary to quantum mechanics), 4. research, 5. experiences of the author, 6. the knowledge on the chakras and aura, 7. the ancient Hindu texts, etc. There are explanations, in this book, about: 1. the various divisions and nature of the Holographic Universe. 2. how everything happens as per the World Drama (Akashic Records). 3. how people live in two kinds of worlds, the Real World and the Holographic World, at the same time. 4. the Holographic Film of the Hologram which we are participating in. 5. how various kinds of worlds exist. 6. how the quantum energies materialise the physical bodies and physical world through the Holographic Universe. 7. how the creation process takes place through the vortices and chakras. 8. Near Death Experiences 9. the Cosmic Consciousness. 10. how subtle dimensions, holographic bodies and subtle bodies are created. 11. how the aura is used during experiences. 12. how quantum energies of different densities materialise a different kind of Real World for us to live in. 13. how the Holographic Universe changes when the world transforms. 14. the meditation and knowledge of the Brahma Kumaris.

[The Determinants of Cross-border Equity Flows](#) Royal Society of Chemistry

This book is the first comprehensive book about reservoir computing (RC). RC is a powerful and broadly applicable computational framework based on recurrent neural networks. Its advantages lie in small training data set requirements, fast training, inherent memory and high flexibility for various hardware implementations. It originated from computational neuroscience and machine learning but has, in recent years, spread dramatically, and has been introduced into a wide variety of fields, including complex systems science, physics, material science, biological science, quantum machine learning, optical communication systems, and robotics. Reviewing the current state of the art and providing a concise guide to the field, this book introduces readers to its basic concepts, theory, techniques, physical implementations and applications. The book is sub-structured into two major parts: theory and physical implementations. Both parts consist of a compilation of chapters, authored by leading experts in their respective fields. The first part is devoted to theoretical developments of RC, extending the framework from the conventional recurrent neural network context to a more general dynamical systems context. With this broadened perspective, RC is not restricted to the area of machine learning but is being connected to a much wider class of systems. The second part of the book focuses on the utilization of physical dynamical systems as reservoirs, a framework referred to as physical reservoir computing. A variety of physical systems and substrates have already been suggested and used for the implementation of reservoir computing. Among these physical systems which cover a wide range of spatial and temporal scales, are mechanical and optical systems, nanomaterials, spintronics, and quantum many body systems. This book offers a valuable resource for researchers (Ph.D. students and experts alike) and practitioners working in the field of machine learning, artificial intelligence, robotics, neuromorphic computing, complex systems, and physics.