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KEY=TUNNELING - TRISTIN SIMS

INTRODUCTION TO SCANNING TUNNELING MICROSCOPY

Oxford University Press on Demand A graduate-level introduction to scanning tunnelling microscopy, which explains how the method's ability to map microscopic surfaces non-destructively has found major applications in physics, surface science, materials science, biology, chemistry and engineering.

THE BRITISH NATIONAL BIBLIOGRAPHY

A GALLERY OF CHUA ATTRACTORS

World Scientific Chaos is considered as one of the most important concepts in modern science. It originally appeared only in computer simulation (the famous Lorenz equation of 1963), but this changed with the introduction of Chua's oscillator (1986) — a simple electronic circuit with the ability to generate a vast range of chaotic behaviors. With Chua's circuit, chaos became a physical phenomenon, readily understood and represented in mathematical language. Yet, even so, it is still difficult for the non-specialist to appreciate the full variety of behaviors that the system can produce. This book aims to bridge the gap. A gallery of nearly 900 "chaotic attractors" — some generated by Chua's physical circuit, the majority through computer simulation of the circuit and its generalizations — are illustrated as 3D color images, time series and fast Fourier transform algorithms. For interested researchers, also presented is the information necessary to replicate the behaviors and images. Finally, how the fractal richness can be plied to artistic ends in generating music and interesting sounds is shown; some examples are included in the DVD-ROM which comes with the book. The contents have also appeared in the International Journal of Bifurcation and Chaos (2007).

JULIAN SCHWINGER: THE PHYSICIST, THE TEACHER, AND THE MAN

World Scientific In the post-quantum-mechanics era, few physicists, if any, have matched Julian Schwinger in contributions to and influence on the development of physics. A deep and provocative thinker, Schwinger left his indelible mark on all areas of theoretical physics; an eloquent lecturer and immensely successful mentor, he was gentle, intensely private, and known for being "modest about everything except his physics". This book is a collection of talks in memory of him by some of his contemporaries and his former students: A Klein, F Dyson, B DeWitt, W Kohn, D Saxon, P C Martin, K Johnson, S Deser, R Finkelstein, Y J Ng, H Feshbach, L Brown, S Glashow, K A Milton, and C N Yang. From it, one can get a glimpse of Julian Schwinger, the physicist, the teacher, and the man. Altogether, this book is a must for all physicists, physics students, and others who are interested in great legends. Contents: Recollections of Julian Schwinger (A Klein) Schwinger's Response to the Award of an Honorary Degree at Nottingham Schwinger's "The Greening of Quantum Field Theory: George and I" (F Dyson) The Uses and Implications of Curved-Spacetime Propagators: A Personal View (B DeWitt) Overview of Density Functional Theory (W Kohn) Julian Schwinger Memorial Tribute (D Saxon) Julian Schwinger — Personal Recollections (P C Martin) Julian Schwinger — Personal Recollections (K Johnson) Julian Schwinger — Personal Recollections (S Deser) Julian Schwinger: The QED Period at Michigan and the Source Theory Period at UCLA (R Finkelstein) Schwinging a Sorcerer's Wand: Julian and I (Y J Ng) Julian Schwinger — Reminiscences and Nuclear Physics (H Feshbach) An Important Schwinger Legacy: Theoretical Tools (L Brown) The Road to Electroweak Unification (S Glashow) Julian Schwinger: Source Theory and the UCLA Years — from Magnetic Charge to the Casimir Effect (K A Milton) Julian Schwinger (C N Yang) Readership: Graduate students in physics and physicists. keywords: Biography of Julian Schwinger; Quantum Electrodynamics; Renormalization Theory; Quantum Field Theory; Electroweak Unification; Green's Functions; Source Theory; Nuclear Physics; Theoretical Physics; Variational Principles "This is a very interesting book about Julian Schwinger from many very different view points." C N Yang, Nobel Laureate SUNY, Stony Brook "This book gives special insights into one of the great minds of 20th century theoretical physics." Frank Close Rutherford Appleton Lab. "... it provides a fascinating and inspiring insight into the life and work of one of the true giants of theoretical physics. This is a book many physicists will want to read." T W B Kibble Imperial College "It is a nice collection of reminiscences by his close friends. I very much enjoyed reading it." T Eguchi Univ. of Tokyo "Many of the contributions make fascinating reading." CERN Courier "There are two valuable appendices as well: a list of Schwinger's doctoral students and his updated publication list ... The articles are varied in slant, but all are delightful ... One picks up interesting and varying insights from the different contributions here." Sam Treiman Physics Today

EXPERIMENTAL AND QUASI-EXPERIMENTAL DESIGNS FOR GENERALIZED CAUSAL INFERENCE

Wadsworth Publishing Company Sections include: experiments and generalised causal inference; statistical conclusion validity and internal validity; construct validity and external validity; quasi-experimental designs that either lack a control group or lack pretest observations on the outcome; quasi-experimental designs that use both control groups and pretests; quasi-experiments: interrupted time-series designs; regression discontinuity designs; randomised experiments: rationale, designs, and conditions conducive to doing them; practical problems 1: ethics, participation recruitment and random assignment; practical problems 2: treatment implementation and attrition; generalised causal inference: a grounded theory; generalised causal inference: methods for single studies; generalised causal inference: methods for multiple studies; a critical assessment of our assumptions.

TEXTBOOK OF SURGERY

John Wiley & Sons Textbook of Surgery is a core book for medical and surgical students providing a comprehensive overview of general and speciality surgery. Each topic is written by an expert in the field. The book focuses on the principles and techniques of surgical management of common diseases. Great emphasis is placed on problem-solving to guide students and junior doctors through their surgical training. Throughout the book are numerous reproducible line drawings, tables and boxes that will prove invaluable for learning and revision. In addition there are detailed guidelines provided for surgical management. Up-to-date and ideal for medical students and junior doctors on surgical attachments and a perfect refresher for RACS and MRCS candidates. Reviews of the last edition "The textbook presents a compact and contemporary overview and is not so much a reference book as a working tome suitable for familiarization with current trends in treatment and diagnosis in these various areas. ...found this textbook very informative and a pleasure to read." ANZ Journal of Surgery Vol. 72, No. 12.

ENCYCLOPEDIA OF ARTIFICIAL INTELLIGENCE

IGI Global "This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

CHEMICAL REACTOR DESIGN

CRC Press Featuring case studies and worked examples that illustrate key concepts in the text, this book contains guidelines for scaleup of laboratory and pilot plant results, methods to derive the correct reaction order, activation energy, or kinetic model from laboratory tests, and theories, correlations, and practical examples for 2- and 3-phase reaction

INTRODUCTION TO SCANNING TUNNELING MICROSCOPY

Oxford University Press Due to its nondestructive imaging power, scanning tunneling microscopy has found major applications in the fields of physics, chemistry, engineering, and materials science. This book provides a comprehensive treatment of scanning tunneling and atomic force microscopy, with full coverage of the imaging mechanism, instrumentation, and sample applications. The work is the first single-author reference on STM and presents much valuable information previously available only as proceedings or collections of review articles. It contains a 32-page section of remarkable STM images, and is organized as a self-contained work, with all mathematical derivations fully detailed. As a source of background material and current data, the book will be an invaluable resource for all scientists, engineers, and technicians using the imaging abilities of STM and AFM. It may also be used as a textbook in senior-year and graduate level STM courses, and as a supplementary text in surface science, solid-state physics, materials science, microscopy, and quantum mechanics.

GREENING THE ACADEMY

ECOPEDAGOGY THROUGH THE LIBERAL ARTS

Springer Science & Business Media This is the academic Age of the Neoliberal Arts. Campuses—as places characterized by democratic debate and controversy, wide ranges of opinion typical of vibrant public spheres, and service to the larger society—are everywhere being creatively destroyed in order to accord with market and military models befitting the academic-industrial complex. While it has become increasingly clear that facilitating the sustainability movement is the great 21st century educational challenge at hand, this book asserts that it is both a dangerous and criminal development today that sustainability in higher education has come to be defined by the complex-friendly “green campus” initiatives of science, technology, engineering and management programs. By contrast, *Greening the Academy: Ecopedagogy Through the Liberal Arts* takes the standpoints of those working for environmental and ecological justice in order to critique the unsustainable disciplinary limitations within the humanities and social sciences, as well as provide tactical reconstructive openings toward an empowered liberal arts for sustainability. *Greening the Academy* thus hopes to speak back with a collective demand that sustainability education be defined as a critical and moral vocation comprised of the diverse types of humanistic study that will benefit the well-being of our emerging planetary community and its numerous common locales.

PRACTICAL STATISTICS FOR DATA SCIENTISTS

50 ESSENTIAL CONCEPTS

"O'Reilly Media, Inc." Statistical methods are a key part of of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that “learn” from data Unsupervised learning methods for extracting meaning from unlabeled data

CUMULATIVE BOOK INDEX

A world list of books in the English language.

ENCYCLOPEDIA OF DATA WAREHOUSING AND MINING

IGI Global Data Warehousing and Mining (DWM) is the science of managing and analyzing large datasets and discovering novel patterns and in recent years has emerged as a particularly exciting and industrially relevant area of research. Prodigious amounts of data are now being generated in domains as diverse as market research, functional genomics and pharmaceuticals; intelligently analyzing these data, with the aim of answering crucial questions and helping make informed decisions, is the challenge that lies ahead. *The Encyclopedia of Data Warehousing and Mining* provides a comprehensive, critical and descriptive examination of concepts, issues, trends, and challenges in this rapidly expanding field of data warehousing and mining (DWM). This encyclopedia consists of more than 350 contributors from 32 countries, 1,800 terms and definitions, and more than 4,400 references. This authoritative publication offers in-depth coverage of evolutions, theories, methodologies, functionalities, and applications of DWM in such interdisciplinary industries as healthcare informatics, artificial intelligence, financial modeling, and applied statistics, making it a single source of knowledge and latest discoveries in the field of DWM.

SELECTED TOPICS IN MASS SPECTROMETRY IN THE BIOMOLECULAR SCIENCES

Springer Science & Business Media Many fundamental aspects of the methods used in mass spectrometry are here presented by outstanding scientists, with reference to very recent developments. The principles and applications of electrospray, ion spray and MALDI ionization technique are presented, together with optimised GC/MS interfacing systems and tools for quantitative analysis. A comprehensive treatment of modern instrumentation for mass analysis and detection is also included. The major part of the book deals with bioanalytical applications to peptides, proteins, oligonucleotides, polysaccharides, lipids and plant metabolites. Several papers are devoted to the evaluation of adduct formation between DNA and carcinogens. Environmental applications are also included, with examples of some specific cases. Fundamentals and applications are treated with the same degree of depth: the first two parts of the book therefore provide a basis for the understanding of the biomolecular applications section. Audience: Ideal for advanced graduate students of chemistry who have learned some basic mass spectrometry. Also useful for Ph.D. students in chemistry, biology and medicine. Of value to researchers in academic and industrial laboratories.

ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY

IGI Global Snippet "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

OBESITY

SCIENCE TO PRACTICE

John Wiley & Sons This comprehensive textbook addresses one of the major public health concerns of our era – obesity. Clearly and simply, *Obesity: science to practice* provides a balanced, coherent account of obesity: how to define and measure it, its epidemiology, the physiological basis, associated diseases, how to assess, manage and treat it, and also strategies for prevention. The book is generously illustrated, including graphs and flow charts for easy reference. The chapters cite key references so that interested readers may pursue a given topic in more detail. Well presented and thoroughly edited by one of the leading experts in the field, this is the textbook of choice for anyone working in obesity.

THE QUEST FOR ARTIFICIAL INTELLIGENCE

Cambridge University Press Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.

SOCIAL RESEARCH

ISSUES, METHODS, AND PROCESS

CHINESE SILKS

"Chinese Edition Edited by Huang Nengfu and Zhao Feng."

THERMOELECTRICS HANDBOOK

MACRO TO NANO

CRC Press Ten years ago, D.M. Rowe introduced the bestselling CRC Handbook of Thermoelectrics to wide acclaim. Since then, increasing environmental concerns, desire for long-life electrical power sources, and continued progress in miniaturization of electronics has led to a substantial increase in research activity involving thermoelectrics. Reflecting the latest trends and developments, the Thermoelectrics Handbook: Macro to Nano is an extension of the earlier work and covers the entire range of thermoelectrics disciplines. Serving as a convenient reference as well as a thorough introduction to thermoelectrics, this book includes contributions from 99 leading authorities from around the world. Its coverage spans from general principles and theoretical concepts to material preparation and measurements; thermoelectric materials; thermoelements, modules, and devices; and thermoelectric systems and applications. Reflecting the enormous impact of nanotechnology on the field-as the thermoelectric properties of nanostructured materials far surpass the performance of conventional materials-each section progresses systematically from macro-scale to micro/nano-scale topics. In addition, the book contains an appendix listing major manufacturers and suppliers of thermoelectric modules. There is no longer any need to spend hours plodding through the journal literature for information. The Thermoelectrics Handbook: Macro to Nano offers a timely, comprehensive treatment of all areas of thermoelectrics in a single, unified reference.

UNCONVENTIONAL WARFARE (SPECIAL FORCES, BOOK 1)

Scholastic Inc. Discover the secret missions behind America's greatest conflicts. Danny Manion has been fighting his entire life. Sometimes with his fists. Sometimes with his words. But when his actions finally land him in real trouble, he can't fight the judge who offers him a choice: jail... or the army. Turns out there's a perfect place for him in the US military: the Studies and Observation Group (SOG), an elite volunteer-only task force comprised of US Air Force Commandos, Army Green Berets, Navy SEALs, and even a CIA agent or two. With the SOG's focus on covert action and psychological warfare, Danny is guaranteed an unusual tour of duty, and a hugely dangerous one. Fortunately, the very same qualities that got him in trouble at home make him a natural-born commando in a secret war. Even if almost nobody knows he's there. National Book Award finalist Chris Lynch begins a new, explosive fiction series based on the real-life, top-secret history of US black ops.

SYSTEMATIC REVIEWS

CRD'S GUIDANCE FOR UNDERTAKING REVIEWS IN HEALTH CARE

For adults. There is a pressing need for methodologically sound RCTs to confirm whether such interventions are helpful and, if so, for whom.

BOOKS IN PRINT SUPPLEMENT

ELEMENTS OF HUMAN VOICE

World Scientific p>This is a self-contained monograph on human voice. It systematically expounds a theory of voice production initiated by Leonhard Euler, through an analysis of large amount of human voice data, especially simultaneously acquired voice signals and electroglottograph signals, as well as temporal variations of pressures directly below and above the vocal folds. Its contents include the physics and physiology of human voice production, parametrical representations of voice signals, and technology applications. Background knowledge on general acoustics and mathematical tools pertinent to quantitative descriptions of human voice are explained in detail. Readers of this monograph include researchers, practitioners and students in the fields of physiology and medicine, acoustics, computer science, telecommunication, acoustic phonetics, and vocal music. Contents: PrefacePhysics and Physiology:Acoustic WavesVoice OrgansExperimental FactsThe Physics of Voice ProductionMathematical Representations:Timbron ExtractionTimbre VectorsWaveform RecoveryApplicationsAppendices:Kramers-Kronig RelationsLaguerre FunctionsBibliographyIndex Readership: Graduate students, academics and professionals in the field of computer science especially voice interface, physiology and medicine especially otolaryngology, linguistics especially phonetics, and vocal music.

MOSTLY HARMLESS ECONOMETRICS

AN EMPIRICIST'S COMPANION

Princeton University Press In addition to econometric essentials, this book covers important new extensions as well as how to get standard errors right. The authors explain why fancier econometric techniques are typically unnecessary and even dangerous.

PHYSICS OF SOLAR ENERGY

John Wiley & Sons PHYSICS OF Solar Energy Science/Physics/Energy The definitive guide to the science of solar energy You hold in your hands the first, and only, truly comprehensive guide to the most abundant and most promising source of alternative energy—solar power. In recent years, all major countries in the world have been calling for an energy revolution. The renewable energy industry will drive a vigorous expansion of the global economy and create more “green” jobs. The use of fossil fuels to power our way of living is moving toward an inevitable end, with sources of coal, petroleum, and natural gas being fiercely depleted. Solar energy offers a ubiquitous, inexhaustible, clean, and highly efficient way of meeting the energy needs of the twenty-first century. This book is designed to give the reader a solid footing in the general and basic physics of solar energy, which will be the basis of research and development in new solar engineering technologies in the years to come. As solar technologies like solar cells, solar thermal power generators, solar water heaters, solar photochemistry applications, and solar space heating-cooling systems become more and more prominent, it has become essential that the next generation of energy experts—both in academia and industry—have a one-stop resource for learning the basics behind the science, applications, and technologies afforded by solar energy. This book fills that need by laying the groundwork for the projected rapid expansion of future solar projects.

STRENGTH AND POWER IN SPORT

John Wiley & Sons The second edition of this broadly based book continues to examine and update the basic and applied aspects of strength and power in sport from the neurophysiology of the basic motor unit to training for specific activities. Authorship is, again, international and includes leading physiologists and clinicians.

DECADAL CLIMATE VARIABILITY

DYNAMICS AND PREDICTABILITY

Springer Science & Business Media Proceedings of the NATO Advanced Study Institute "Decadal Climate Variability: Dynamics and Predictability", held at Les Houches, France, February 13-24, 199

BIO-GLASSES

AN INTRODUCTION

John Wiley & Sons This new work is dedicated to glasses and their variants which can be used as biomaterials to repair diseased and damaged tissues. Bio-glasses are superior to other biomaterials in many applications, such as healing bone by signaling stem cells to become bone cells. Key features: First book on biomaterials to focus on bio-glasses Edited by a leading authority on bio-glasses trained by one of its inventors, Dr Larry Hench Supported by the International Commission on Glass (ICG) Authored by members of the ICG Biomedical Glass Committee, with the goal of creating a seamless textbook Written in an accessible style to facilitate rapid absorption of information Covers all types of glasses, their properties and applications, and demonstrates how glass is an attractive improvement to current procedures Of interest to the biomedical as well as the materials science community. The book covers all types of glasses: traditional glasses, bioactive glasses, sol-gel glasses, phosphate glasses, glass-ceramics, composites and hybrids. Alongside discussion on how bio-glasses are made, their properties, and the reasons for their use, the authors also cover their applications in dentistry, bone regeneration and tissue engineering and cancer treatment. Its solid guidance describes the steps needed to take a new material from concept to clinic, covering the essentials of patenting, scale-up, quality assurance and FDA approval.

GOOD STRATEGY/BAD STRATEGY

THE DIFFERENCE AND WHY IT MATTERS

Profile Books When Richard Rumelt's Good Strategy/Bad Strategy was published in 2011, it immediately struck a chord, calling out as bad strategy the mish-mash of pop culture, motivational slogans and business buzz speak so often and misleadingly masquerading as the real thing. Since then, his original and pragmatic ideas have won fans around the world and continue to help readers to recognise and avoid the elements of bad strategy and adopt good, action-oriented strategies that honestly acknowledge the challenges being faced and offer straightforward approaches to overcoming them. Strategy should not be equated with ambition, leadership, vision or planning; rather, it is coherent action backed by an argument. For Rumelt, the heart of good strategy is insight into the hidden power in any situation, and into an appropriate response - whether launching a new product, fighting a war or putting a man on the moon. Drawing on examples of the good and the bad from across all sectors and all ages, he shows how this insight can be cultivated with a wide variety of tools that lead to better thinking and better strategy, strategy that cuts through the hype and gets results.

THE HISTORY MANIFESTO

Cambridge University Press How should historians speak truth to power - and why does it matter? Why is five hundred years better than five months or five years as a planning horizon? And why is history - especially long-term history - so essential to understanding the multiple pasts which gave rise to our conflicted present? The History Manifesto is a call to arms to historians and everyone interested in the role of history in contemporary society. Leading historians Jo Guldi and David Armitage identify a recent shift back to longer-term narratives, following many decades of increasing specialisation, which they argue is vital for the future of historical scholarship and how it is communicated. This provocative and thoughtful book makes an important intervention in the debate about the role of history and the humanities in a digital age. It will provoke discussion among policymakers, activists and entrepreneurs as well as ordinary listeners, viewers, readers, students and teachers. This title is also available as Open Access.

30TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED CHEMICAL ENGINEERING

Elsevier 30th European Symposium on Computer Aided Chemical Engineering, Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Milan, Italy, May 24-27, 2020. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event Offers a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries

SOUTH AFRICAN JOURNAL OF SCIENCE

AN INTRODUCTION TO BIOCERAMICS

SECOND EDITION

World Scientific Publishing Company This is the second edition of the classic book An Introduction to Bioceramics which provides a comprehensive overview of all types of ceramic and glass materials that are used in medicine and dentistry. The enormous growth of the field of bioceramics is due to the recognition by the medical and dental community of the importance of bioactive materials to stimulate repair and regeneration of tissues. This edition includes 21 new chapters that document the science and especially the clinical applications of the new generation of bioceramics in the field of tissue regeneration and repair. Important socioeconomic factors influencing the economics and availability of new medical treatments are covered with updates on regulatory procedures for new biomaterials, methods for technology transfer and ethical issues. The book contains 42 chapters that offer the only comprehensive treatment of the science, technology and clinical applications of all types of bioceramic materials used in medicine and dentistry. Each chapter is written by leaders in their specialized fields and is a thorough review of the subject matter, unlike many conference proceedings. All chapters have been edited to reflect the same writing style, making the book an easy read. The completeness of treatment of all types of bioceramics and their clinical applications makes the book unique in the field and invaluable to all readers.

THE GLOBAL SMARTPHONE

BEYOND A YOUTH TECHNOLOGY

UCL Press The smartphone is often literally right in front of our nose, so you would think we would know what it is. But do we? To find out, 11 anthropologists each spent 16 months living in communities in Africa, Asia, Europe and South America, focusing on the take up of smartphones by older people. Their research reveals that smartphones are technology for everyone, not just for the young. The Global Smartphone presents a series of original perspectives deriving from this global and comparative research project. Smartphones have become as much a place within which we live as a device we use to provide 'perpetual opportunism', as they are always with us. The authors show how the smartphone is more than an 'app device' and explore differences between what people say about smartphones and how they use them. The smartphone is unprecedented in the degree to which we can transform it. As a result, it quickly assimilates personal values. In order to comprehend it, we must take into consideration a range of national and cultural nuances, such as visual communication in China and Japan, mobile money in Cameroon and Uganda, and access to health information in Chile and Ireland - all alongside diverse trajectories of ageing in Al Quds, Brazil and Italy. Only then can we know what a smartphone is and understand its consequences for people's lives around the world.

ELECTRODE MATERIALS FOR ENERGY STORAGE AND CONVERSION

CRC Press This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. FEATURES Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka.

His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage.

POSITIVE PSYCHOLOGY IN PRACTICE

John Wiley & Sons A thorough and up-to-date guide to putting positive psychology into practice From the Foreword: "This volume is the cutting edge of positive psychology and the emblem of its future." -Martin E. P. Seligman, Ph.D., Fox Leadership Professor of Psychology, University of Pennsylvania, and author of Authentic Happiness Positive psychology is an exciting new orientation in the field, going beyond psychology's traditional focus on illness and pathology to look at areas like well-being and fulfillment. While the larger question of optimal human functioning is hardly new - Aristotle addressed it in his treatises on eudaimonia - positive psychology offers a common language on this subject to professionals working in a variety of subdisciplines and practices. Applicable in many settings and relevant for individuals, groups, organizations, communities, and societies, positive psychology is a genuinely integrative approach to professional practice. Positive Psychology in Practice fills the need for a broad, comprehensive, and state-of-the-art reference for this burgeoning new perspective. Cutting across traditional lines of thinking in psychology, this resource bridges theory, research, and applications to offer valuable information to a wide range of professionals and students in the social and behavioral sciences. A group of major international contributors covers: The applied positive psychology perspective Historical and philosophical foundations Values and choices in pursuit of the good life Lifestyle practices for health and well-being Methods and processes for teaching and learning Positive psychology at work The best and most thorough treatment of this cutting-edge discipline, Positive Psychology in Practice is an essential resource for understanding this important new theory and applying its principles to all areas of professional practice.

THE PHYSICS OF LIQUID CRYSTALS

Oxford University Press The original edition was immediately recognized as a classic of condensed matter physics. This new edition covers the main properties of nematics, cholesterics, and smectics and columnar phases, particularly the symmetry and the mechanical and optical characteristics of each phase. The latter includes some applications to display systems. The emphasis on order-of-magnitude considerations should make it accessible to researchers and graduate students alike.

THE THEORY OF INTERMOLECULAR FORCES

Oxford University Press The Theory of Intermolecular Forces sets out the mathematical techniques needed to describe and calculate intermolecular interactions in physics and chemistry, and to handle the more elaborate mathematical models used to represent them.

WHAT UNIVERSITIES OWE DEMOCRACY

JHU Press "This book identifies four distinct functions of American higher education that colleges and universities have acquired over the past two hundred years and that are integral to liberal democracy: social mobility, citizenship education, the discovery and communication of knowledge, and the cultivation of a pluralistic society. Each chapter takes up one of these functions to analyze and assess"--