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GaN-based Materials and Devices World Wisdom, Inc
This book provides an overview of the newly emerged and highly interdisciplinary field of printed electronics • Provides an overview of the latest developments and research results in the field of printed electronics • Topics addressed include: organic printable electronic materials, inorganic printable electronic materials, printing processes and equipments for electronic manufacturing, printable transistors, printable photovoltaic devices, printable lighting and display, encapsulation and packaging of printed electronic devices, and applications of printed electronics • Discusses the principles of the above topics, with support of examples and graphic illustrations • Serves both as an advanced introductory to the topic and as an aid for professional development into the new field • Includes end of chapter references and links to further reading

Turkestan Struggle Abroad John Benjamins Publishing Company
Investigates the endangerment of languages and the loss of traditional cultural diversity, and how to respond.

Turkish-Jewish Encounters John Wiley & Sons
Optoelectronic devices transform electrical signals into optical signals (and vice versa) by utilizing the interaction of electrons and light. Advanced software tools for the design and analysis of such devices have been developed in recent years. However, the large variety of materials, devices, physical mechanisms, and modeling approaches often makes it difficult to select appropriate theoretical models or software packages. This book presents a review of devices and advanced simulation approaches written by leading researchers and software developers. It is intended for scientists and device engineers in optoelectronics who are interested in using advanced software tools. Each chapter includes the theoretical background as well as practical simulation results that help the reader to better understand internal device physics. Real-world devices such as edge-emitting or surface-emitting laser diodes, light-emitting diodes, solar cells, photodetectors, and integrated optoelectronic circuits are investigated. The software packages described in the book are available to the public, on a commercial or noncommercial basis, so that the interested reader is quickly able to perform similar simulations.

Ready to Write More Heinle & Heinle Publishers
The unique materials properties of GaN-based semiconductors havestimulated a great deal of interest in research and developmentregarding nitride materials growth and optoelectronic andnitride-based electronic devices. High electron mobility andsaturation velocity, high sheet carrier concentration atheterojunction interfaces, high breakdown field, and low thermalimpedance of GaN-based films grown over SiC or bulk AlN substratesmake nitride-based electronic devices very promising.

Modeling and Simulation SAGE
Terahertz waves, which lie in the frequency range of 0.1-10 THz, have long been investigated in a few limited fields, such as astronomy, because of a lack of devices for their generation and detection. Several technical breakthroughs made over the last couple of decades now allow us to radiate and detect terahertz waves more easily, which has trigg

Cyber-Physical Systems Grove/Atlantic, Inc.
Currently surface patterning is achieved by means of optical lithographic techniques but with industry moving towards the fabrication of devices with size features of 100 nm less, the technological community is looking for alternative approaches to materials fabrication at the nanoscale. By using nanolithography scientists can drive patterning currents through surfaces while building a 3D structure from a series of patterned layers. Electron induced chemical lithography can create ultra-high resolution templates for the site selective immobilisation of molecules, to form functional, hierarchic.

Endangered Languages and Languages in Danger Research Centre for Turkestan and Azerbaijan
The topics include bonding-based fabrication methods of silicon-on-insulator, photonic crystals, VCSELs, SiGe-based FETs, MEMS together with hybrid integration and laser lift-off. The non-specialist will learn about the basics of wafer bonding and its various application areas, while the researcher in the field will find up-to-date information about this fast-moving area, including relevant patent information.

Wafer Bonding Springer Science & Business Media
A unique introduction to the design, analysis, and presentation of scientific projects, this is an essential textbook for undergraduate majors in science and mathematics. The textbook gives an overview of the main methods used in scientific research, including hypothesis testing, the measurement of functional relationships, and observational research. It describes important features of experimental design, such as the control of errors, instrument calibration, data analysis, laboratory safety, and the treatment of human subjects. Important concepts in statistics are discussed, focusing on standard error, the meaning of p values, and use of elementary statistical tests. The textbook introduces some of the main ideas in mathematical modeling, including order-of-magnitude analysis, function fitting, Fourier transforms, recursion relations, and difference approximations to differential equations. It also provides guidelines on accessing scientific literature, and preparing scientific papers and presentations. An extensive instructor's manual containing sample lessons and student papers is available at www.cambridge.org/Marder.

Graphene State University of New York Press
Since its discovery in 2004, graphene has been a great sensation due to its unique structure and unusual properties, and it has only taken 6 years for a Noble Prize to be awarded for the field of graphene research. This monograph gives a well-balanced overview on all areas of scientific interest surrounding this fascinating nanocarbon. In one handy volume it offers comprehensive coverage of the topic, including chemical, materials science, nanoscience, physics, engineering, life science, and potential applications. Other graphene-like, inorganic layered materials are also discussed. Edited by two highly honored scientists, this is an invaluable companion for inorganic, organic, and physical chemists, materials scientists, and physicists. From the Contents: * Synthesis, Characterization, and Selected Properties of Graphene * Understanding Graphene via Raman Scattering * Physics of Quanta and Quantum Fields in Graphene * Graphene and Graphene-Oxide-Based Materials for Electrochemical Energy Systems * Heterogeneous Catalysis by Metal Nanoparticles supported on Graphene * Graphenes in Supramolecular Gels and in Biological Systems and many more

The Sympathizer Haarlem : SOTA ; Geneva : EAFORD
#1 New York Times Bestseller “ Significant...The book is both instructive and surprisingly moving. ” —The New York Times Ray Dalio, one of the world ’ s most successful investors and entrepreneurs, shares the unconventional principles that he ’ s developed, refined, and used over the past forty years to create unique results in both life and business—and which any person or organization can adopt to help achieve their goals. In 1975, Ray Dalio founded an investment firm, Bridgewater Associates, out of his two-bedroom apartment in New York City. Forty years later, Bridgewater has made more money for its clients than any other hedge fund in history and grown into the fifth most important private company in the United States, according to Fortune magazine. Dalio himself has been named to Time magazine ’ s list of the 100 most influential people in the world. Along the way, Dalio discovered a set of unique principles that have led to Bridgewater ’ s exceptionally effective culture, which he describes as “ an idea meritocracy that strives to achieve meaningful work and meaningful relationships through radical transparency. ” It is these principles, and not anything special about Dalio—who grew up an ordinary kid in a middle-class Long Island neighborhood—that he believes are the reason behind his success. In Principles, Dalio shares what he ’ s learned over the course of his remarkable career. He argues that life, management, economics, and investing can all be systemized into rules and understood like machines. The book ’ s hundreds of practical lessons, which are built around his cornerstones of “ radical truth ” and “ radical transparency, ” include Dalio laying out the most effective ways for individuals and organizations to make decisions, approach challenges, and build strong teams. He also describes the innovative tools the firm uses to bring an idea meritocracy to life, such as creating “ baseball cards ” for all employees that distill their strengths and weaknesses, and employing computerized decision-making systems to make believability-weighted decisions. While the book brims with novel ideas for organizations and institutions, Principles also offers a clear, straightforward approach to decision-making that Dalio believes anyone can apply, no matter what they ’ re seeking to achieve. Here, from a man who has been called both “ the Steve Jobs of investing ” and “ the philosopher king of the financial universe ” (CIO magazine), is a rare opportunity to gain proven advice unlike anything you ’ ll find in the conventional business press.

Green Consumerism John Wiley & Sons
This peer-reviewed collection brings together the latest research on language endangerment and language rights. It creates a vibrant, interdisciplinary platform for the discussion of the most pertinent and urgent topics central to vitality and equality of languages in today ’ s globalised world. The novelty of the volume lies in the multifaceted view on the variety of dangers that languages face today, such as extinction through dwindling speaker populations and lack of adequate preservation policies or inequality in different social contexts (e.g. access to justice, education and research resources). There are examples of both loss and survival, and discussion of multiple factors that condition these two different outcomes. We pose and answer difficult questions such as whether forced interventions in preventing loss are always warranted or indeed viable. The emerging shared perspective is that of hope to inspire action towards improving the position of different languages and their speakers through research of this kind.

Printed Electronics Shambhala Publications
The book is written as primer hand book for addressing the fundamentals of smart grid. It provides the working definition the functions, the design criteria and the tools and techniques and technology needed for building smart grid. The book is needed to provide a working guideline in the design, analysis and development of Smart Grid. It incorporates all the essential factors of Smart Grid appropriate for enabling the performance and capability of the power system. There are no comparable books which provide information on the “ how to ” of the design and analysis. The book provides a fundamental discussion on the motivation for the smart grid development, the working definition and the tools for analysis and development of the Smart Grid. Standards and requirements needed for designing new devices, systems and products are discussed; the automation and computational techniques need to ensure that the Smart Grid guarantees adaptability, foresight alongside capability of handling new systems and components are discussed. The interoperability of different renewable energy sources are included to ensure that there will be minimum changes in the existing legacy system. Overall the book evaluates different options of computational intelligence, communication technology and decision support system to design various aspects of Smart Grid. Strategies for demonstration of Smart Grid schemes on selected problems are presented.

Living and Dying with Grace Springer
These essays go to the roots of the religious/science impass.

Calculus the Maple Way Create Space
This is the definitive introduction to the writings of 'Ali, who was the son-in-law to the Prophet Muhammad, the fourth caliph to Sunni Muslims, and the central figure in Shi'a Islam. Two essays in this anthology won awards at the International Congress on Iman 'Ali, Tehran, 2001. Seyyed Hossein Nasr, pronounced them, among the best writings on this extraordinary figure in Western languages and are obligatory reading for anyone interested in 'Ali.

Memoirs Simon and Schuster
WINNER of the NATIONAL BOOK AWARD and A NEW YORK TIMES TOP 10 BEST BOOK OF THE YEAR A finalist for the Kirkus Prize, Andrew Carnegie Medal, Aspen Words Literary Prize, and a New York Times bestseller, this majestic, stirring, and widely praised novel from two-time National Book Award winner Jesmyn Ward, the story of a family on a journey through rural Mississippi, is a “ tour de force ” (O, The Oprah Magazine) and a timeless work of fiction that is destined to become a classic. Jesmyn Ward ’ s historic second National Book Award – winner is “ perfectly poised for the moment ” (The New York Times), an intimate portrait of three generations of a family and an epic tale of hope and struggle. “ Ward ’ s writing throbs with life, grief, and love… this book is the kind that makes you ache to return to it ” (Buzzfeed). Jojo is thirteen years old and trying to understand what it means to be a man. He doesn ’ t lack in fathers to study, chief among them his Black grandfather, Pop. But there are other men who complicate his understanding: his absent White father, Michael, who is being released from prison; his absent White grandfather, Big Joseph, who won ’ t acknowledge his existence; and the memories of his dead uncle, Given, who died as a teenager. His mother, Leonie, is an inconsistent presence in his and his toddler sister ’ s lives. She is an imperfect mother in constant conflict with herself and those around her. She is Black and her children ’ s father is White. She wants to be a better mother but can ’ t put her children above her own needs, especially her drug use. Simultaneously tormented and comforted by visions of her dead brother, which only come to her when she ’ s high, Leonie is embattled in ways that reflect the brutal reality of her circumstances. When the children ’ s father is released from prison, Leonie packs her kids and a friend into her car and drives north to the heart of Mississippi and Parchman Farm, the State Penitentiary. At Parchman, there is another thirteen-year-old boy, the ghost of a dead inmate who carries all of the ugly history of the South with him in his wandering. He too has something to teach Jojo about fathers and sons, about legacies, about violence, about love. Rich with Ward ’ s distinctive, lyrical language, Sing, Unburied, Sing is a majestic and unforgettable family story and “ an odyssey through rural Mississippi ’ s past and present ” (The Philadelphia Inquirer).

Introduction to Software Packages Simon and Schuster
The author, Professor Z. V. Togan, staged a counterrevolution, who first

interacted and bargained with Lenin, Stalin, Trotsky and the rest of the Soviet and Bolshevik luminaries of his own time for Baskurdistan and Turkistan. It can be read profitably in the context of anti-colonialism, Sub-altern studies, Russian and Soviet studies.

A Hunter's Experiences in the Southern States of America World Scientific
Although comprehensive knowledge of cyber-physical systems (CPS) is becoming a must for researchers, practitioners, system designers, policy makers, system managers, and administrators, there has been a need for a comprehensive and up-to-date source of research and information on cyber-physical systems. This book fills that need.Cyber-Physical Syst

Reform movements and revolutions in Turkistan, 1900-1924 Don Mills, Ont. : Addison-Wesley
Living and Dying with Grace is a book of aphoristic Sufi teachings on how to make one's way in the world—especially on how to bring spiritual insight to the affairs of daily life. Sufism, the mystical branch of Islam, contains a vast body of knowledge concerning the inner development of the complete human being. Among the greatest of Sufi masters, Hadrat 'Al î (598-661 CE), cousin and son-in-law of the Prophet Muhammad, is regarded as a paragon of compassion and virtue and a master of both exoteric and esoteric knowledge. He was not only a great warrior, statesman, and scholar, but also a devoted husband and father. Success in this life, 'Al î teaches, is bestowed on those who maintain generosity, intelligence, perseverance, integrity, and calm reflection. As for success in the hereafter, 'Al î says, "God, the Glorified, admits to Paradise anyone, at will, for truthfulness of intention and goodness of innermost thoughts." This book contains four hundred of Hadrat 'Al î 's teachings, showing how people can use the everyday realities of their lives to cultivate wisdom and well-being, both temporal and eternal, offering a path to living and dying with grace.

Oriental Linguist Cambridge University Press
Colorful bracelets, funky brooches, and beautiful handmade beads: young crafters learn to make all these and much more with this fantastic step-by-step guide. In 12 exciting projects with simple steps and detailed instructions, budding fashionistas create their own stylish accessories to give as gifts or add a touch of personal flair to any ensemble. Following the successful "Art Smart" series, "Craft Smart" presents a fresh, fun approach to four creative skills: knitting, jewelry-making, papercrafting, and crafting with recycled objects. Each book contains 12 original projects to make, using a range of readily available materials. There are projects for boys and girls, carefully chosen to appeal to readers of all abilities. A special "techniques and materials" section encourages young crafters to try out their own ideas while learning valuable practical skills.

Central Asia, 130 Years of Russian Dominance John Wiley & Sons
X. The Middle East