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2AB - WARREN TIMOTHY

Discusses the history of cultural life in ancient Egypt, focusing on the different regions of Egypt and how art, architecture, literature, and religion varied in these regions.

This Handbook provides a comprehensive roadmap to the burgeoning area of Afro-Latin American Studies. Afro-Latins as a civilization developed during the period of slavery, obtaining cultural contributions from Indigenous and European worlds, while today they are enriched by new social configurations derived from contemporary migrations from Africa. The essays collected in this volume speak to scientific production that has been promoted in the region from the humanities and social sciences with the aim of understanding the phenomenon of the African diaspora as a specific civilizing element. With contributions from world-leading figures in their fields overseen by an eminent international editorial board, this Handbook features original, authoritative articles organized in four coherent parts: • Disciplinary Studies; • Problem Focused Fields; • Regional and Country Approaches; • Pioneers of Afro-Latin American Studies. The Routledge Handbook of Afro-Latin American Studies will not only serve as the major reference text in the area of Afro-Latin American Studies but will also provide the agenda for future new research.

Discusses the Ethiopian famine of the 1980s within its historical, geographical, and political contexts and examines the possibility of future famines there.

Essential reading for business leaders and policymakers, an in-depth investigation of red teaming, the practice of inhabiting the perspective of potential competitors to gain a strategic advantage Red teaming. The concept is as old as the Devil's Advocate, the eleventh-century Vatican official charged with discrediting candidates for sainthood. Today, red teams are used widely in both the public and the private sector by those seeking to better understand the interests, intentions, and capabilities of institutional rivals. In the right circumstances, red teams can yield impressive results, giving businesses an edge over their competition, poking holes in vital intelligence estimates, and troubleshooting dangerous military missions long before boots are on the ground. But not all red teams are created equal; indeed, some cause more damage than they prevent. Drawing on a fascinating range of case studies, Red Team shows not only how to create and empower red teams, but also what to do with the information they produce. In this vivid, deeply-informed account, national security expert Micah Zenko provides the definitive book on this important strategy -- full of vital insights for decision makers of all kinds.

What was it like to live in the 13 colonies? Read about day-to-day activities, holidays, celebrations, customs, education, politics and religion.

As esthetic dentistry continues to grow in popularity, dentists are offered an opportunity to expand their practices and attract new patients. Esthetic Dentistry in Clinical Practice provides dentists with the skills to take advantage of that opportunity. Clearly outlining esthetic procedures, the book enables dentists to treat patients in an efficient and clinically sound manner, bringing esthetic dentistry to everyday practice.

"Lash is capable of explaining the mind-bending concepts of Gnosticism and pagan mystery cults with bracing clarity and startling insight. . . . [His] arguments are often lively and entertaining."—Los Angeles Times Fully revised and with a new preface by the author, this timely update is perfect for readers of The Immortality Key. Since its initial release to wide acclaim in 2006, Not in His Image has transformed the lives of readers around the world by presenting the living presence of the Wisdom Goddess as never before revealed, illustrating that the truth of an impactful Gnostic message cannot be hidden or destroyed. With clarity, author John Lamb Lash explains how a little-known messianic sect propelled itself into a dominant world power, systematically wiping out the great Gnostic spiritual teachers, the Druid priests, and the shamanistic healers of Europe and North Africa. Early Christians burned libraries and destroyed temples in an attempt to silence the ancient truth-tellers and keep their own secrets. Not in His Image delves deeply into ancient Gnostic writings to reconstruct the story early Christians tried to scrub from the pages of history, exploring the richness of the ancient European Pagan spirituality—the Pagan Mysteries, the Great Goddess, Gnosis, the myths of Sophia and Gaia. In the 15th Anniversary Edition, Lash doubles down on his original argument against redemptive ideology and authoritarian deceit. He shows how the Gnostics clearly foresaw the current program of salvation by syringe, and places the Sophianic vision of life centrally in the battle to expose and oppose the evil agenda of transhumanism, making this well-timed update more relevant than ever. "Sometimes a book changes the world. Not in His Image is such a book. It is clear, stimulating, well-researched, and sure to outrage the experts. . . . Get it. Improve not just your own life, but civilization's chances for survival."—Roger Payne, author of Among Whales

In 1894, Eleanor L. Pray left her New England home to move with her merchant husband to Vladivostok in the Russian Far East. Over the next thirty-six years � from the time of Tsar Alexander III to the early years of Stalin�s rule � she wrote more than 2,000 letters chronicling her family life and the tumultuous social and political events she witnessed. Vladivostok, 5,600 miles east of Moscow, was shaped by a rich intersection of Asian cultures, and Pray�s witty and observant writing paints a vivid picture of the city and its denizens during a period of momentous social change. The book

offers highlights from Pray�s letters along with illuminating historical and biographical information.

Audio Signal Processing for Next-Generation Multimedia Communication Systems presents cutting-edge digital signal processing theory and implementation techniques for problems including speech acquisition and enhancement using microphone arrays, new adaptive filtering algorithms, multichannel acoustic echo cancellation, sound source tracking and separation, audio coding, and realistic sound stage reproduction. This book's focus is almost exclusively on the processing, transmission, and presentation of audio and acoustic signals in multimedia communications for telecollaboration where immersive acoustics will play a great role in the near future.

Electric Vehicle Battery Systems provides operational theory and design guidance for engineers and technicians working to design and develop efficient electric vehicle (EV) power sources. As Zero Emission Vehicles become a requirement in more areas of the world, the technology required to design and maintain their complex battery systems is needed not only by the vehicle designers, but by those who will provide recharging and maintenance services, as well as utility infrastructure providers. Includes fuel cell and hybrid vehicle applications. Written with cost and efficiency foremost in mind, Electric Vehicle Battery Systems offers essential details on failure mode analysis of VRLA, NiMH battery systems, the fast-charging of electric vehicle battery systems based on Pb-acid, NiMH, Li-ion technologies, and much more. Key coverage includes issues that can affect electric vehicle performance, such as total battery capacity, battery charging and discharging, and battery temperature constraints. The author also explores electric vehicle performance, battery testing (15 core performance tests provided), lithium-ion batteries, fuel cells and hybrid vehicles. In order to make a practical electric vehicle, a thorough understanding of the operation of a set of batteries in a pack is necessary. Expertly written and researched, Electric Vehicle Battery Systems will prove invaluable to automotive engineers, electronics and integrated circuit design engineers, and anyone whose interests involve electric vehicles and battery systems. * Addresses cost and efficiency as key elements in the design process * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems, including Pb-acid, NiMH, and Li-ion technologies * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems, including Pb-acid, NiMH, and Li-ion technologies

The first official music videos aired in the 1970s, but the seeds for making music something more than a pleasure for the ears were planted decades earlier. This book covers the birth of the music video, starting in the 1920s and 1930s when the first great movie musicals were produced, then details how MTV revolutionized the industry by making the film production as important as song production. Author Hal Marcovitz explains the various music video styles and differences in production value. Concluding chapters highlight the Internet video sensations of today and the interactive features that will likely characterize the genre tomorrow.

Ultrafast spectroscopy of semiconductors and semiconductor nanostructures is currently one of the most exciting areas of research in condensed-matter physics. Remarkable recent progress in the generation of tunable femtosecond pulses has allowed direct investigation of the most fundamental dynamical processes in semiconductors. This second edition presents the most striking recent advances in the techniques of ultrashort pulse generation and ultrafast spectroscopy; it discusses the physics of relaxation, tunneling and transport dynamics in semiconductors and semiconductor nanostructures following excitation by femtosecond laser pulses.

The global response from business to social and environmental issues during the past decade has created a corporate responsibility movement. But what has been the impact of this movement? The financial crisis that began in 2007 has led more and more people to question the fundamentals of our economic system. Now, some within the corporate responsibility movement are developing a vision and practice of a new form of capitalism, one that will require collective action to achieve. Bendell and Doyle draw on Lifeworth's annual reviews of corporate responsibility and explain how business leaders, stakeholders and related academe now need to experiment with new models that address the fundamental flaws of contemporary capitalism, including monetary systems, enterprise ownership, and regulation. This book will be a fantastic resource for business libraries, as it records and analyses key events, issues and trends in corporate responsibility during the first decade of the 21st century. It is a sequel and companion to Bendell's previous work, The Corporate Responsibility Movement.

As the world rolls out transformational 5G services, it has become increasingly clear that China may be able to disrupt—or even access—the wireless networks that carry our medical, financial, and even military communications. This insider story from a telecommunications veteran uncovers how we got into this mess—and how to change the outcome. In Wireless Wars: China's Dangerous Domination of 5G and How We're Fighting Back, author Jon Pelson explains how America invented cellular technology, taught China how to make the gear, and then handed them the market. Pelson shares never-before-told stories from the executives and scientists who built the industry and describes how China undercut and destroyed competing equipment makers, freeing themselves to export their nation's network gear—and their surveillance state. He also reveals China's successful program to purchase the support of the world's leading political, business, and military figures in their effort to control rival nations' networks. What's more, Pelson draws on his lifelong experience in the telecommunications industry and remarkable access to the sector's leaders to reveal how innovative companies can take on the Chinese threat and work with counterintelligence and cybersecurity experts to prevent China from closing the trap. He offers unparalleled insights into how 5G impacts businesses, national security and you. Finally, Wireless Wars proposes how America can use its own unique superpower to retake the lead from China. This book is about more than just 5G wireless services, which enable self-driving cars, advanced telemedicine, and transformational industrial capabilities. It's about the dangers of placing our most sensitive information into the hands of foreign companies who answer to the Chinese Communist Party. And it's about the technology giant that China is using to project its power around the world; Huawei, a global super-company that has surged from a local vendor to a $120 billion-a-year behemoth in just a few years. For anyone curious about the hottest issue at the intersection of technology and geopolitics, Wireless Wars offers an immersive crash course and an unforgettable read.

Harry Kellar (1849-1922) was the most well-known illusionist at the turn of the century and the first American-born magician to avhieve international fame. This biography of a key American magician, the model for the Wizard of Oz, is the first for young readers.

This volume focuses on the practical application of processes for manufacturing plastic products. It includes information on design for manufacturability (DFM), material selection, process selection,

dies, molds, and tooling, extrusion, injection molding, blow molding, thermoforming, lamination, rotational molding, casting, foam processing, compression and transfer molding, fiber reinforced processing, assembly and fabrication, quality, plant engineering and maintenance, management.

Describes women in ancient Greece through the Hellenistic age, including their legal rights and status, their home life, their roles in community activities, and their image in mythology, drama, and philosophy.

Discusses historical origins, the teachings, practices, spread of Shinto into modern times.

This book brings together many advanced topics in network and acoustic echo cancellation aimed towards enhancing the echo cancellation performance of next-generation telecommunication systems. The resulting compendium provides a coherent treatment of such topics not found otherwise in journals or other books.

Examines the life of Bill Gates, his early interest in computers, the founding of Microsoft, his success as a businessman, his family life and philanthropic activities.

Now in full color throughout, Duncan and Prasse's Veterinary Laboratory Medicine: Clinical Pathology, Fifth Edition offers a comprehensive overview of hematology, hemostasis, clinical chemistry, urinalysis, cytology, and reference intervals in a highly accessible outline format. With information on all major domestic species, the text is designed for the reader to quickly find answers to clinical questions. Taking a problem-solving approach to the interpretation of laboratory data, this book includes clinical cases to illustrate the concepts of laboratory data interpretation, with tables and key words to aid readers in locating and applying information. The fifth edition has been fully revised to reflect the latest knowledge, diagnostic methods, and practices in veterinary laboratory medicine. A companion website provides the images in PowerPoint and references linked to PubMed at www.wiley.com/go/latimer. Duncan and Prasse's Veterinary Laboratory Medicine is an excellent quick reference for practicing veterinarians, veterinary students, clinical interns and residents, and pathology residents.

This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives. From ER to ET: How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders, scientific underpinnings, ethical issues, and applications through history. Utilizing a format of short essays, this book explains in a balanced, and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us. Quizzes at the end of each chapter provide the reader with a deeper understanding of the material. This book is a valuable resource for microwave engineers of varying levels of experience, and for instructors to motivate their students and add depth to their assignments. In addition, this book: Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering (emphasized in current ABET accreditation criteria) Includes quizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal, PhD, is a professor of Electrical and Computer Engineering at the University of Connecticut. He is a member of IEEE and the Connecticut Academy of Science and Engineering. He is a Fellow of the Electromagnetics Academy. His editing credits include Fundamentals of Engineering Electromagnetics and Engineering Electromag-

netics: Applications. Dr. Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine.

This book will help readers comprehend technical and policy elements of telecommunication particularly in the context of 5G. It first presents an overview of the current research and standardization practices and lays down the global frequency spectrum allocation process. It further lists solutions to accommodate 5G spectrum requirements. The readers will find a considerable amount of information on 4G (LTE-Advanced), LTE-Advance Pro, 5G NR (New Radio); transport network technologies, 5G NGC (Next Generation Core), OSS (Operations Support Systems), network deployment and end-to-end 5G network architecture. Some details on multiple network elements (end products) such as 5G base station/small cells and the role of semiconductors in telecommunication are also provided. Keeping trends in mind, service delivery mechanisms along with state-of-the-art services such as MFS (mobile financial services), mHealth (mobile health) and IoT (Internet-of-Things) are covered at length. At the end, telecom sector's burning challenges and best practices are explained which may be looked into for today's and tomorrow's networks. The book concludes with certain high level suggestions for the growth of telecommunication, particularly on the importance of basic research, departure from ten-year evolution cycle and having a 20–30 year plan. Explains the conceivable six phases of mobile telecommunication's ecosystem that includes R&D, standardization, product/network/device & application development, and burning challenges and best practices Provides an overview of research and standardization on 5G Discusses solutions to address 5G spectrum requirements while describing the global frequency spectrum allocation process Presents various case studies and policies Provides details on multiple network elements and the role of semiconductors in telecommunication Presents service delivery mechanisms with special focus on IoT

The Art of UNIX Programming poses the belief that understanding the unwritten UNIX engineering tradition and mastering its design patterns will help programmers of all stripes to become better programmers. This book attempts to capture the engineering wisdom and design philosophy of the UNIX, Linux, and Open Source software development community as it has evolved over the past three decades, and as it is applied today by the most experienced programmers. Eric Raymond offers the next generation of "hackers" the unique opportunity to learn the connection between UNIX philosophy and practice through careful case studies of the very best UNIX/Linux programs.

This book outlines the fundamentals of this fascinating branch of astronomy, and explores the forefront of astronomical research. The author's passion for the topic shines with an intensity that rivals the book's many colourful illustrations, and will deeply inspire the reader. The cogently written text introduces the reader to the astronomy of galaxies, their structure, their active galactic nuclei, their evolution and their large scale distribution. Starting with a detailed description of our Milky Way, and a review of modern observational and theoretical cosmology, the book goes on to examine the formation of structures and astronomical objects in the early universe.

In the 50 years since the invention of transistor, silicon integrated circuit (IC) technology has made astonishing advances. A key factor that makes these advances possible is the ability to have precise control on material properties and physical dimensions. The introduction of plasma processing in pattern transfer and in thin film deposition is a critical enabling advance among other things. In state of the art silicon Ie manufacturing process, plasma is used in more than 20 different critical steps. Plas-

ma is sometimes called the fourth state of matter (other than gas, liquid and solid). It is a mixture of ions (positive and negative), electrons and neutrals in a quasi-neutral gaseous steady state very far from equilibrium, sustained by an energy source that balances the loss of charged particles. It is a very harsh environment for the delicate ICs. Highly energetic particles such as ions, electrons and photons bombard the surface of the wafer continuously. These bombardments can cause all kinds of damage to the silicon devices that make up the integrated circuits.

A 2018 Pura Belpré Author Honor Book The First Rule of Punk is a wry and heartfelt exploration of friendship, finding your place, and learning to rock out like no one's watching. There are no short-cuts to surviving your first day at a new school—you can't fix it with duct tape like you would your Chuck Taylors. On Day One, twelve-year-old Malú (María Luisa, if you want to annoy her) inadvertent-ly upsets Posada Middle School's queen bee, violates the school's dress code with her punk rock look, and disappoints her college-professor mom in the process. Her dad, who now lives a thousand miles away, says things will get better as long as she remembers the first rule of punk: be yourself. The real Malú loves rock music, skateboarding, zines, and Soyrizo (hold the cilantro, please). And when she assembles a group of like-minded misfits at school and starts a band, Malú finally begins to feel at home. She'll do anything to preserve this, which includes standing up to an anti-punk school administration to fight for her right to express herself! Black and white illustrations and col-lage art throughout make The First Rule of Punk a perfect pick for fans of books like Roller Girl and online magazines like Rookie.

Equips Christians and even those outside the church who see the destructive power of this agenda to fight it and proclaim biblical truth.

This is the story of wunderkind physicist Jan Hendrik Schön who faked the discovery of a new super-conductor made from plastic. A star researcher at the world-renowned Bell Laboratories in New Jersey, he claimed to have stumbled across a powerful method for making carbon-based crystals in-to transistors, the switches found on computer chips. Had his experiments worked, they would have paved the way for huge advances in technology--computer chips that we could stick on a dress or eyewear, or even use to make electronic screens as thin and easy-to-fold as sheets of paper. But as other researchers tried to recreate Schön's experiments, the scientific community learned that it had been duped. Why did so many top experts, including Nobel prize-winners, support Schön? What led the major scientific journals to publish his work, and promote it with press releases? And what drove Schön, by all accounts a mild-mannered, modest and obliging young man, to tell such outra-geous lies?

Multi-point Cooperative Communication Systems: Theory and Applications mainly discusses multi--point cooperative communication technologies which are used to overcome the long-standing problem of limited transmission rate caused by the inter-point interference. Instead of combating the interference, recent progress in both academia and industrial standardizations has evolved to adopt the philosophy of "exploiting" the interference to improve the transmission rate by cooperat-ing among multiple points. This book addresses the multi-point cooperative communication system systematically giving the readers a clear picture of the technology map and where the discussed schemes may fit. This book includes not only the theories of the paradigm-shifting multi-point coop-erative communication, but also the designs of sub-optimal cooperative communication schemes for practical systems. Ming Ding is a senior researcher at Sharp Laboratories of China; Hanwen Luo is a professor at Shanghai Jiao Tong University.

R, linear models, random, fixed, data, analysis, fit.

Understand the nuances of programming traditional quantum computers and solve the challenges of the future while building and executing quantum programs on IBM Quantum hardware and simula-tors Key FeaturesWork your way up from writing a simple quantum program to programming com-plex quantum algorithmsExplore the probabilistic nature of qubits by performing quantum coin toss-es and using random number generatorsDelve into quantum algorithms and their practical applica-tions in various domainsBook Description IBM Quantum Experience® is a leading platform for pro-gramming quantum computers and implementing quantum solutions directly on the cloud. This book will help you get up to speed with programming quantum computers and provide solutions to the most common problems and challenges. You'll start with a high-level overview of IBM Quantum Expe-rience® and Qiskit®, where you will perform the installation while writing some basic quantum pro-grams. This introduction puts less emphasis on the theoretical framework and more emphasis on re-cent developments such as Shor's algorithm and Grover's algorithm. Next, you'll delve into Qiskit®, a quantum information science toolkit, and its constituent packages such as Terra, Aer, Ignis, and Aqua. You'll cover these packages in detail, exploring their benefits and use cases. Later, you'll dis-cover various quantum gates that Qiskit® offers and even deconstruct a quantum program with their help, before going on to compare Noisy Intermediate-Scale Quantum (NISQ) and Universal Fault-Tolerant quantum computing using simulators and actual hardware. Finally, you'll explore quantum algorithms and understand how they differ from classical algorithms, along with learning how to use pre-packaged algorithms in Qiskit® Aqua. By the end of this quantum computing book, you'll be able to build and execute your own quantum programs using IBM Quantum Experience® and Qiskit® with Python. What you will learnVisualize a qubit in Python and understand the concept of superpositionInstall a local Qiskit® simulator and connect to actual quantum hardwareCompose quantum programs at the level of circuits using Qiskit® TerraCompare and contrast Noisy Intermedi-ate-Scale Quantum computing (NISQ) and Universal Fault-Tolerant quantum computing using simula-tors and IBM Quantum® hardwareMitigate noise in quantum circuits and systems using Qiskit® Igni-sUnderstand the difference between classical and quantum algorithms by implementing Grover's al-gorithm in Qiskit®Who this book is for This book is for developers, data scientists, machine learning researchers, or quantum computing enthusiasts who want to understand how to use IBM Quantum Experience® and Qiskit® to implement quantum solutions and gain practical quantum computing experience. Python programming experience is a must to grasp the concepts covered in the book more effectively. Basic knowledge of quantum computing will also be beneficial.

Success in scientific and engineering research depends on effective writing and presentation. The purpose of this guide is to help the reader achieve that goal. It enables students and researchers to write and present material to a professional modern standard, efficiently and painlessly, and with maximum impact. The approach is not prescriptive. Rather, the emphasis is on a logical approach to communication, informed by what needs to be achieved, what works in practice, and what interferes with success. Over 400 examples of good and bad writing and graphing are presented. Each is from a published research article and is accompanied by analysis, comment, and correction where need-

ed. Journal reviewers' critiques of submitted manuscripts are included to illustrate common pitfalls. Above all, this is a "how-to" book, comprehensive but concise, suitable for continuous study or quick reference. Checklists at the end of each chapter enable the reader to test the readiness of a dissertation, journal submission, or conference presentation for assessment or review. Although oriented towards engineering and the physical and life sciences, it is also relevant to other areas, including behavioural and clinical sciences and medicine.

This book presents current methods for dealing with software reliability, illustrating the advantages and disadvantages of each method. The description of the techniques is intended for a non-expert audience with some minimal technical background. It also describes some advanced techniques, aimed at researchers and practitioners in software engineering. This reference will serve as an introduction to formal methods and techniques and will be a source for learning about various ways to enhance software reliability. Various projects and exercises give readers hands-on experience with the various formal methods and tools.

This must-have volume provides an overview of the rise and expansion of the Islamic Empire, Muslim conquests, and later dynasties and empires. Author Don Nardo presents a thorough and sensitive study of Islam's past and present. Readers will learn about Muhammad and early Muslim conquests. They will learn about Islam's golden age and its existence today. Full-color photographs, maps, illustrations, timelines, and sidebars support the text.