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KEY=TECHNOLOGICAL - JOHNSON JANIYA

The Battery

How Portable Power Sparked a Technological Revolution

Smithsonian **"Henry Schlesinger is playful and intelligent and obscenely well read." — Richard Zacks, author of The Pirate Hunter "Henry Schlesinger's fascinating and superbly researched history of the battery is the story of civilization as we know it." — Michael Belfiore, author of The Department of Mad Scientists Henry Schlesinger's The Battery is the first popular history of the technology that harnessed electricity and powered the greatest scientific and technological advances of our time. If you like Wired Magazine and popular science books, you'll love the "hidden history" of The Battery.**

how portable power sparked a technological revolution

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Spark

The Life of Electricity and the Electricity of Life

Princeton University Press **A fresh look at electricity and its powerful role in life on Earth When we think of electricity, we likely imagine the energy humming inside our home appliances or lighting up our electronic devices—or perhaps we envision the lightning-streaked clouds of a stormy sky. But electricity is more than an external source of power, heat, or illumination. Life at its essence is nothing if not electrical. The story of how we came to understand electricity's essential role in all life is rooted in our observations of its influences on the body—influences governed by the body's central nervous system. Spark explains the science of electricity from this fresh, biological perspective. Through vivid tales of scientists and individuals—from Benjamin Franklin to Elon Musk—Timothy Jorgensen shows how our views of electricity and the nervous system evolved in tandem, and how progress in one area enabled advancements in the other. He explains how these developments have allowed us to understand—and replicate—the ways electricity enables the body's essential functions of sight, hearing, touch, and movement itself. Throughout, Jorgensen examines our fascination with electricity and how it can help or harm us. He explores a broad range of topics and events, including the Nobel Prize–winning discoveries of the electron and neuron, the history of experimentation involving electricity's effects on the body, and recent breakthroughs in the use of electricity to treat disease. Filled with gripping adventures in scientific exploration, Spark offers an indispensable look at electricity, how it works, and how it animates our lives from within and without.**

Innovators in Battery Technology

Profiles of 95 Influential Electrochemists

McFarland **As the world's demand for electrical energy increases, it will be the ingenuity and skill of brilliant electrochemists that enable us to utilize the planet's mineral reserves responsibly. This biographical dictionary profiles 95 electrochemists from 19 nations who during the past 270 years have researched and developed ever more efficient batteries and energy cells. Each entry traces the subject's origin, education, discoveries and patents, as well as hobbies and family life. The breakthroughs of early innovators are cataloged and the work of living scientists and technicians is brought up to date. An appendix provides a cross-referenced timeline of innovation.**

Energy

A Human History

Simon & Schuster **A "meticulously researched" (The New York Times Book Review) examination of energy transitions over time and an exploration of the current challenges presented by global warming, a surging world population, and renewable energy—from Pulitzer Prize- and National Book Award-winning author Richard Rhodes. People have lived and died, businesses have prospered and failed, and nations have risen to world power and declined, all over energy challenges. Through an unforgettable cast of characters, Pulitzer Prize-winning author Richard Rhodes explains how wood gave way to coal and coal made room for oil, as we now turn to natural gas, nuclear power, and renewable energy. "Entertaining and informative…a powerful look at the importance of science" (NPR.org), Rhodes looks back on five centuries of progress, through such influential figures as Queen Elizabeth I, King James I, Benjamin Franklin, Herman Melville, John D. Rockefeller, and Henry Ford. In his "magisterial history…a tour de force of popular science" (Kirkus Reviews, starred review), Rhodes shows how breakthroughs in energy production occurred; from animal and waterpower to the steam engine, from internal-combustion to the electric motor. He looks at the current energy landscape, with a focus on how wind energy is competing for dominance with cast supplies of coal and natural gas. He also addresses the specter of global warming, and a population hurtling towards ten billion by 2100. Human beings have confronted the problem of how to draw energy from raw material since the beginning of time. Each invention, each discovery, each adaptation brought further challenges, and through such transformations, we arrived at where we are today. "A beautifully written, often inspiring saga of ingenuity and progress…Energy brings facts, context, and clarity to a key, often contentious subject" (Booklist, starred review).**

Technical Innovation in American History: An Encyclopedia of Science and Technology [3 volumes]

ABC-CLIO **From the invention of eyeglasses to the Internet, this three-volume set examines the pivotal effects that inventions have had on society, providing a fascinating history of technology and innovations in the United States from the earliest colonization by Europeans to the present. • Encourages readers to consider the tremendous potential impact of advances in science and technology and the ramifications of important inventions on the global market, human society, and even the planet as a whole • Supports eras addressed in the National Standards for American history as well as curricular units on inventions, discoveries, and technological advances • Includes primary documents, a chronology, and section openers that help readers contextualize the content**

The Battery

How Portable Power Sparked a Technological Revolution

Harper Perennial **An eye-opening history of the technology that harnessed electricity and powered the greatest scientific and technological advances of our time. What begin as a long-running dispute in biology, involving a dead frog's twitching leg, a scalpel, and a metal plate, would become an invention that transformed the history of the world: the battery. Science journalist Henry Schlesinger traces the history of this essential power source and demonstrates its impact on our lives, from Alessandro Volta's first copper-and-zinc model in 1800 to twenty-first-century technological breakthroughs. Schlesinger introduces the charlatans and geniuses, the paupers and magnates, who were attracted to the power of the battery.**

Sparking a Worldwide Energy Revolution

Social Struggles in the Transition to a Post-petrol World

AK Press **The earth's not dying, it's being killed. Only a movement for renewable energy will save it.**

The Fourth Industrial Revolution

Penguin UK **The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.**

Racing to the Top

How Energy Fuels System Leadership in World Politics

Oxford University Press, USA **In the international political economy of the last two millennia, there tends to be one state leading the world as the foremost producer of energy and new technology. In Racing to the Top, William R. Thompson and Leila Zakhirova argue that the US and China, like previous leading countries, rely on energy transition, or the development of alternative energy, in order to make new technology relatively inexpensive to develop and to fuel. While the US has historically held the lead, its edge in the global energy economy appears to be eroding, and as energy leadership diminishes, so does the country's position in world politics. Thompson and Zakhirova take a long view in order to show what will be necessary for a new power to emerge as the system leader, then map a path forward for energy policy. Informed by a deep knowledge of world history, political economy, and environmental technology, this book is the first complete overview of energy transitions over the past thousand years.**

African Parliaments Volume 1

Evidence Systems for Governance and Development

African Sun Media **Parliaments play a pivotal role in governance, and yet little is known about how evidence is used for decision-making in these complex, political environments. Together with its practice companion volume, African Parliaments: Systems of evidence in practice, this volume explores the multiple roles legislatures play in governance, the varied mandates and allegiances of elected representatives, and what this means for evidence use. Given the tensions in Africa around the relationships between democracy and development, government and citizen agency, this volume considers the theories around parliamentary evidence use, and interrogates what they mean in the context of African governance.**

Mobile Cultures

New Media in Queer Asia

Duke University Press **DIVA collection of essays on the uses of new media in the formation of East Asian and Pacific queer identities./div**

The Mobile Commerce Revolution

Business Success in a Wireless World

Que Publishing **Your Definitive Guide to Profiting from Mobile Commerce With more than 60% of Americans carrying smartphones, your mobile commerce opportunities are immense: not someday, right now. But, to fully capture those opportunities, it's not enough to build an app. You need to know how mobile is transforming your customers' behavior, your organization, and your competitive environment. You need to assess and apply a wide spectrum of strategies, tactics, and technologies: from responsive web design and location-based tactics to mobile payment systems. You need to change your processes and your culture. The Mobile Commerce Revolution covers all this and more. Mobile commerce pioneer Tim Hayden and consumer behavior expert Tom Webster draw on their experience helping clients of all kinds to succeed with mobile— from startups to the world's top brands. Packed with indispensable data and cutting-edge case studies, this guide will take you from planning to action to profit! Discover how customer mobile behavior is radically maturing and shifting Weave mobility throughout your marketing mix and business operations Prepare for the instant and impulse when your customer wants to buy Identify mobile tactics that are actually influencing purchases Earn confidence from customers that you will protect their privacy Use payment technologies to reduce friction and make it easier to buy Deliver richer, more powerful stories and mobile experiences Understand customers through "Little Data": qualitative studies to physically observe behavior Grasp purchase attribution: why people buy**

The Energy Imperative

100 Percent Renewable Now

Routledge **For decades, Hermann Scheer was one of the world's leading proponents of renewable energy. In this, his last book before his death in 2010, he lays out his vision for a planet 100% powered by renewables and examines the fundamental ethical and economic imperatives for such a shift. And most importantly, he demonstrates why the time for this transition is now. In Scheer's view, talk of bridging technologies such as carbon capture and storage or nuclear energy even (and perhaps especially) by environmentalists is actively damaging the more pressing agenda of the move to 100% renewable energy. Instead, he offers up examples of the technologies which are working (economically) today and details the policy and market conditions which would allow them to flourish.**

Methodologies and Outcomes of Engineering and Technological Pedagogy

IGI Global **Engineering pedagogy is closely linked to both the technical and the pedagogical sciences. Over the years, engineering pedagogy has shifted from practical education to teaching how to integrate information, computational, and communications technology. However, while pedagogical and psychological qualifications are highly important requirements for a teaching career in engineering, the research on engineering pedagogy remains scant and scattered across journal articles, conference proceedings, workshop notes, and official reports. Methodologies and Outcomes of Engineering and Technological Pedagogy is a collection of innovative research building on the available literature that examines engineering pedagogy while providing resources necessary for policymaking, implementation, and continuous improvement. Featuring coverage on a wide range of topics including curriculum development, teaching and learning styles, and inclusivity, this book is ideally designed for educators, engineers, curriculum developers, instructional designers, managers, industry professionals, academicians, policymakers, researchers, and students.**

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《New Statesman》 ………… ——Daily Mail） —— ——•Bear Grylls Discovery—— ——肯·Ken MacLeod Fall Revolution Series ——S.M. S.M.Stirling Island in the Sea of Time ——·Roger Highfield Science Museum Group

Getting Started with Windows 8 Apps

A Guide to the Windows Runtime

"O'Reilly Media, Inc." **Provides information on building Metro style applications using Windows 8.**

The Future of the Jews

How Global Forces are Impacting the Jewish People, Israel, and Its Relationship with the United States

Rowman & Littlefield **In The Future of the Jews, Stuart E. Eizenstat, a senior diplomat of international reputation, surveys the major geopolitical, economic, and security challenges facing the world in general, and the Jewish world and the United States in particular.**

Linden's Handbook of Batteries, 4th Edition

McGraw Hill Professional **The most complete and up-to-date guide to battery technology and selection Thoroughly revised throughout, Linden's Handbook of Batteries, Fourth Editions provides authoritative coverage of the characteristics, properties, and performance of every major battery type. New information on emerging battery systems and their applications is included in this definitive volume. International experts offer unparalleled technical guidance on using leading-edge technologies, materials, and methods in new designs and products, and selecting the most suitable battery for a particular application. All of the in-depth data you need is contained in this comprehensive resource. The book will be useful to graduate students, battery researchers, applications engineers, and all others interested in the state-of-the-art in battery technology. Linden's Handbook of Batteries, Fourth Edition covers: PRINCIPLES OF OPERATION PRIMARY AND SECONDARY BATTERIES SPECIALIZED BATTERY SYSTEMS FUEL CELLS AND ELECTROCHEMICAL CAPACITORS Includes new chapters on: Battery modeling Battery electrolytes Lithium-ion batteries Battery selection for consumer electronics Batteries for electric, hybrid, and plug-in hybrid vehicles Batteries for electrical energy storage systems Batteries for biomedical applications Button cell batteries Batteries for military and space applications, including reserve water-activated and reserve military batteries Electrochemical capacitors**

Educational Technology and Pedagogic Encounters

Democratic Education in Potentiality

Springer **This book looks at some of the underlying theories of educational technology (means), and ways in which this technology is guided in practice (ends). The authors are intent on producing ends that prepare students to undertake new analyses and evaluations that can result in new possibilities for democratic action. Emphasis is on their understanding of and position within educational technology – as opposed to using or applying educational technology. The work is not written from the point of view that their embeddedness within educational technology has a utilitarian end in mind, but rather that their situatedness within educational technology (a practice in itself) leaves open possibilities for new ways of understanding democratic education. This book is organised into six interrelated themes that work towards the cultivation of educational technology as a human practice which guides pedagogic encounters on the basis of taking risks in relation to which the unexpected, unimaginable is always possible.**

Distributed Generation and its Implications for the Utility Industry

Academic Press **Distributed Generation and its Implications for the Utility Industry examines the current state of the electric supply industry; the upstream and downstream of the meter; the various technological, business, and regulatory strategies; and case studies that look at a number of projects that put new models into practice. A number of powerful trends are beginning to affect the fundamentals of the electric utility business as we know it. Recent developments have led to a fundamental re-thinking of the electric supply industry and its traditional method of measuring consumption on a volumetric basis. These developments include decreasing electricity demand growth; the rising cost of fossil fuels and its impact on electricity costs; investment in energy efficiency; increasing numbers of prosumers who generate for some or all of their own needs; and market reforms. This book examines the implications of these trends in chapters focusing on distributed and decentralized generation, transactive energy, the role of electric vehicles, any much more. Discusses the technological, business, and policy trends most impacting the electric utility sector Provides an assessment of how fast and how soon distributed energy resources may make an impact on utility sales/revenues Explores, through a series of international case studies, the implementation of strategies that may help retain the viability of the utility industry Features contributions from a number of scholars, academics, experts and practitioners from different parts of the world focused on examining the future of the electric supply industry**

A Question of Power

Electricity and the Wealth of Nations

Hachette UK **Historically, it was guns, germs, and steel that determined the fates of people and nations. Now, more than ever, it is electricity. Global demand for power is doubling every two decades, but electricity remains one of the most difficult forms of energy to supply and do so reliably. Today, some three billion people live in places where per-capita electricity use is less than what's used by an average American refrigerator. How we close the colossal gap between the electricity rich and the electricity poor will determine our success in addressing issues like women's rights, inequality, and climate change. In A Question of Power, veteran journalist Robert Bryce tells the human story of electricity, the world's most important form of energy. Through onsite reporting from India, Iceland, Lebanon, Puerto Rico, New York, and Colorado, he shows how our cities, our money--our very lives--depend on reliable flows of electricity. He highlights the factors needed for successful electrification and explains why so many people are still stuck in the dark. With vivid writing and incisive analysis, he powerfully debunks the notion that our energy needs can be met solely with renewables and demonstrates why--if we are serious about addressing climate change--nuclear energy must play a much bigger role. Electricity has fueled a new epoch in the history of civilization. A Question of Power explains how that happened and what it means for our future.**

Behind and Beyond the Meter

Digitalization, Aggregation, Optimization, Monetization

Academic Press **The historical ways in which electricity was generated in large central power plants and delivered to passive customers through a one-way transmission and distribution network – as everyone knows – is radically changing to one where consumers can generate, store and consume a significant portion of their energy needs energy locally. This, however, is only the first step, soon to be followed by the ability to share or trade with others using the distribution network. More exciting opportunities are possible with the increased digitalization of BTM assets, which in turn can be aggregated into large portfolios of flexible load and generation and optimized using artificial intelligence and machine learning. Examines the latest advances in digitalization of behind-the-meter assets including distributed generation, distributes storage and electric vehicles and – more important – how these assets can be aggregated and remotely monitored unleashing tremendous value and a myriad of innovative services and business models Examines what lies behind-the-meter (BTM) of typical customers and why managing these assets increasingly matter Describes how smart aggregators with intelligent software are creating value by optimizing how energy may be generated, consumed, stored o potentially shared o traded and between consumers; prosumers and prosumagers (that is, prosumers with storage) Explores new business models that are likely to disrupt the traditional interface between the incumbents and their customers**

Digital Transformation and Industry 4.0

Dr. Evren Ersoy **ABSTRACT There are two major technological revolutions in the history of humanity that have been experienced chronologically and continue until today. These are the society 5.0 and industry 4.0 revolutions. The aim is to carry out professional and academic studies that will enable the invention of related technologies in order to increase the welfare level of humanity and reach the targeted level of welfare within the scope of technology and human values. Therefore, the future of societies will be designed with qualified**

human resources and innovation paradigm, which are two important factors that will enable humanity to be prosperous and sustainable societies. This study covers the transformation of individuals, societies, businesses and especially government authorities for the society 5.0 and industry 4.0 revolutions that will deeply affect all societies globally. It is explained how qualified human resources will change the future with the effect of new technologies and new jobs in the synthesis of technology and people. In addition, there are propositions about how it will affect the development of societies with science, technology, innovation and R&D studies for the intellectual accumulation of qualified people, and most importantly entrepreneurship ecosystem. There are studies on how societies develop the production economy with the innovation-development model, that classical societies are transformed into learning and rational societies, individuals' learning and development responsibilities change and expectations from them are at a higher level, especially technology and science take place in all areas of business and social life. It has been researched which new talents and skills people should have for new jobs within the scope of child and women entrepreneurs, digital natives, and the future of generation x and y. The innovation paradigm is at the heart of these ability and skill researches in the synthesis of technology and people. It has been determined how to use technology and science power for innovation, local and global effects of innovation, and which mission humanity should lead for the future. In addition, Research has been conducted on the most important agendas of today, including innovative development issues with digitalization and digital transformation technologies, transformation of societies, smart cities, digital countries, the future of societies, digital natives and world citizenship, Turkey's digital transformation roadmap proposition, industry 4.0 technology ecosystem and technology development zones in the digital age. Keywords: technology and human, innovation, digital transformation, industry 4.0, society 5.0, future jobs and technology

The Mobile Wave

Hachette+ORM **Smart phones are just the beginning . . . A tech exec's New York Times bestselling, groundbreaking analysis of the impact of mobile intelligence. With the perspective of a historian, the precision of a technologist, and the pragmatism of a CEO, Michael J. Saylor of MicroStrategy provides a panoramic view of the future mobile world. He describes how: A Harvard education will be available to anyone with the touch of a screen. Cash will become virtual software and crime proof. Cars, homes, fruit, animals, and more will be tagged so they can tell you about themselves. Buying an item will be as easy as pointing our mobile device to scan and pay. Land and capital will become more of a liability than an asset. Social mobile media will push all businesses to think and act like software companies. Employment will shift as more service-oriented jobs are automated by mobile software. Products, businesses, industries, economies, and even society will be altered forever as the Mobile wave washes over us and changes the landscape. With so much change, The Mobile Wave is a guidebook for individuals, business leaders, and public figures who must navigate the new terrain as mobile intelligence changes everything. "The visionary picture he paints of the future is captivating, informative, and thought-provoking . . . Readers will be able understand and appreciate his clear and engaging exploration of a complex, red-hot, and thoroughly up-to the minute topic."—USA Today "A thoughtful romp across invention and innovation."—Fortune "A blueprint for impending change and a sober warning for the laggards who resist it."—Forbes.com**

The Knowledge

How to Rebuild Our World After an Apocalypse

Random House **Maybe it was a viral pandemic, or an asteroid strike, or perhaps nuclear war. Whatever the cause, the world as we know it has ended and you and the other survivors must start again. What key knowledge would you need to start rebuilding civilisation from scratch? Once youâe(tm)ve scavenged what you can, how do you begin producing the essentials? How do you grow food, generate power, prepare medicines, or get metal out of rocks? Could you avert another Dark Ages or take shortcuts to accelerate redevelopment? Living in the modern world, we have become disconnected from the basic processes that support our lives, as well as the beautiful fundamentals of science that enable you to relearn things for yourself. The Knowledge is a journey of discovery, a book which explains everything you need to know about everything. This is a quickstart guide for rebooting civilisation which will transform your understanding of the world âe" and help you prepare for when itâe(tm)s no longer here... http://the-knowledge.org/**

Radio's Legacy in Popular Culture

The Sounds of British Broadcasting over the Decades

Bloomsbury Publishing USA **Examining work by novelists, filmmakers, TV producers and songwriters, this book uncovers the manner in which the radio – and the act of listening – has been written about for the past 100 years. Ever since the first public wireless broadcasts, people have been writing about the radio: often negatively, sometimes full of praise, but always with an eye and an ear to explain and offer an opinion about what they think they have heard. Novelists including Graham Greene, Agatha Christie, Evelyn Waugh, and James Joyce wrote about characters listening to this new medium with mixtures of delight, frustration, and despair. Clint Eastwood frightened moviegoers half to death in Play Misty for Me, but Lou Reed's 'Rock & Roll' said listening to a New York station had saved Jenny's life. Frasier showed the urbane side of broadcasting, whilst Good Morning, Vietnam exploded from the cinema screen with a raw energy all of its own. Queen thought that all the audience heard was 'ga ga', even as The Buggles said video had killed the radio star and Tom Petty and the Heartbreakers lamented 'The Last DJ'. This book explores the cultural fascination with radio; the act of listening as a cultural expression – focusing on fiction, films and songs about radio. Martin Cooper, a broadcaster and academic, uses these movies, TV shows, songs, novels and more to tell a story of listening to the radio – as created by these contemporary writers, filmmakers, and musicians.**

Innovation and Disruption at the Grid's Edge

How distributed energy resources are disrupting the utility business model

Academic Press **Innovation and Disruption at the Grid's Edge examines the viable developments in peer-to-peer transactions enabled by open platforms on the grid's edge. With consumers and prosumers using more electronic platforms to trade surplus electricity from rooftop solar panels, share a storage battery, or use smart gadgets that manage load and self-generation, the grid's edge is becoming crowded. The book examines the growing number of consumers engaging in self-generation and storage, and analyzes the underlying causes and drivers of change, as well as the implications of how the utility sector—particularly the distribution network—should/could be regulated. The book also explores how tariffs are set and revenues are collected to cover both fixed and variable costs in a sustainable way. This reference is useful for anyone interested in the areas of energy generation and regulation, especially stakeholders engaged in the generation, transmission, and distribution of power. Examines the new players that will disrupt the energy grid markets Offers unique coverage of an emerging and unpublished topic Helps the reader understand up-to-date energy regulations and pricing innovations**

Mobilized Marketing and the Consumer: Technological Developments and Challenges

Technological Developments and Challenges

IGI Global **"This book explores technological developments and widespread issues concerning the explosion of mobile devices in the information age"--Provided by publisher.**

Bottled Lightning

Superbatteries, Electric Cars, and the New Lithium Economy

Hill and Wang **Lithium batteries may hold the key to an environmentally sustainable, oil-independent future. From electric cars to a "smart" power grid that can actually store electricity, letting us harness the powers of the sun and the wind and use them when we need them, lithium—a metal half as dense as water, found primarily in some of the most uninhabitable places on earth—has the potential to set us on a path toward a low-carbon energy economy. In Bottled Lightning, the science reporter Seth Fletcher takes us on a fascinating journey, from the salt flats of Bolivia to the labs of MIT and Stanford, from the turmoil at GM to cutting-edge lithium-ion battery start-ups, introducing us to the key players and ideas in an industry with the power to reshape the world. Lithium is the thread that ties together many key stories of our time: the environmental movement; the American auto industry, staking its revival on the electrification of cars and trucks; the struggle between first-world countries in need of natural resources and the impoverished countries where those resources are found; and the overwhelming popularity of the portable, Internet-connected gadgets that are changing the way we communicate. With nearly limitless possibilities, the promise of lithium offers new hope to a foundering American economy desperately searching for a green-tech boom to revive it.**

Mobile Computing and Technology Applications in Tourism and Hospitality

IGI Global **Mobile computing and wireless technology have grown at a phenomenal rate in recent years, and so has artificial intelligence. The most advanced software applications that the world ever witnessed can be realized through a combined aspect of these disciplines, capable of delivering high level support to various industry sectors and to people's quality of life in general. Currently, many countries are facing challenges from the COVID-19 pandemic. One of the most impacted industries by the pandemic is that of tourism and hospitality. It is time to explore and leverage the power of mobile and wireless intelligence to assist with the recovery of the tourism and hospitality sector during and after the**

pandemic, which constitutes a need for relevant research in the field. Mobile Computing and Technology Applications in Tourism and Hospitality presents the latest research and development in mobile and intelligent computing with a focus on tourism and hospitality sectors. The chapters discuss the role of research on innovative technologies and applications for resilience to return the tourism and hospitality industry back to its normal state. This includes research on topics such as sensor-based technology, smart tourism, virtual and augmented reality, mobile travel applications, and more. This book is ideal for managers, executives, museum and cultural heritage specialists, app developers, IT consultants, tourism and hospitality professionals, researchers, academicians, and students.

Foundations of Pulsed Power Technology

John Wiley & Sons Examines the foundation of pulse power technology in detail to optimize the technology in modern engineering settings Pulsed power technologies could be an answer to many cutting-edge applications. The challenge is in how to develop this high-power/high-energy technology to fit current market demands of low-energy consuming applications. This book provides a comprehensive look at pulsed power technology and shows how it can be improved upon for the world of today and tomorrow. Foundations of Pulsed Power Technology focuses on the design and construction of the building blocks as well as their optimum assembly for synergetic high performance of the overall pulsed power system. Filled with numerous design examples throughout, the book offers chapter coverage on various subjects such as: Marx generators and Marx-like circuits; pulse transformers; pulse-forming lines; closing switches; opening switches; multi-gigawatt to multi-terawatt systems; energy storage in capacitor banks; electrical breakdown in gases; electrical breakdown in solids, liquids and vacuum; pulsed voltage and current measurements; electromagnetic interference and noise suppression; and EM topology for interference control. In addition, the book: Acts as a reference for practicing engineers as well as a teaching text Features relevant design equations derived from the fundamental concepts in a single reference Contains lucid presentations of the mechanisms of electrical breakdown in gaseous, liquid, solid and vacuum dielectrics Provides extensive illustrations and references Foundations of Pulsed Power Technology will be an invaluable companion for professionals working in the fields of relativistic electron beams, intense bursts of light and heavy ions, flash X-ray systems, pulsed high magnetic fields, ultra-wide band electromagnetics, nuclear electromagnetic pulse simulation, high density fusion plasma, and high energy- rate metal forming techniques.

5G Mobile and Wireless Communications Technology

Cambridge University Press A comprehensive overview of the 5G landscape covering technology options, most likely use cases and potential system architectures.

Mobile Communication Networks: 5G and a Vision of 6G

Springer Nature This book contributes to the body of scholarly knowledge by exploring the main ideas of wireless networks of past, present, and future, trends in the field of networking, the capabilities of 5G and technologies that are potential enablers of 6G, potential 6G applications and requirements, as well as unique challenges and opportunities that 6G research is going to offer over the next decade. It covers research topics such as communication via millimeter-waves, terahertz waves and visible light to enable faster speeds, as well as research into achieving other basic requirements of 6G networks. These include low end-to-end latency, high energy efficiency, coverage that is ubiquitous and always-on, integration of terrestrial wireless with non-terrestrial networks, network management that is made more effective by connected intelligence with machine learning capabilities, as well as support for the evolution of old service classes and support for new ones.

Goyal's Target CUET (UG) 2022 Section II - Economics

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Apress You've found your perfect communications partner. Tiny, light, and inexpensive, netbooks are an ideal match if you need to keep in touch with work, family, and friends wherever you go. Tech mag guru Nancy Nicolaisen helps you to make the right choices about your netbook, from empowering you as a savvy shopper to showing you how netbooks and other mobile Internet devices can make your life easier, perhaps even better! Share the visions and aspirations of major market innovators in exclusive interviews about the global mobile future and see where netbooks could take you tomorrow.

Research Anthology on Securing Mobile Technologies and Applications

IGI Global Mobile technologies have become a staple in society for their accessibility and diverse range of applications that are continually growing and advancing. Users are increasingly using these devices for activities beyond simple communication including gaming and e-commerce and to access confidential information including banking accounts and medical records. While mobile devices are being so widely used and accepted in daily life, and subsequently housing more and more personal data, it is evident that the security of these devices is paramount. As mobile applications now create easy access to personal information, they can incorporate location tracking services, and data collection can happen discreetly behind the scenes. Hence, there needs to be more security and privacy measures enacted to ensure that mobile technologies can be used safely. Advancements in trust and privacy, defensive strategies, and steps for securing the device are important foci as mobile technologies are highly popular and rapidly developing. The Research Anthology on Securing Mobile Technologies and Applications discusses the strategies, methods, and technologies being employed for security amongst mobile devices and applications. This comprehensive book explores the security support that needs to be required on mobile devices to avoid application damage, hacking, security breaches and attacks, or unauthorized accesses to personal data. The chapters cover the latest technologies that are being used such as cryptography, verification systems, security policies and contracts, and general network security procedures along with a look into cybercrime and forensics. This book is essential for software engineers, app developers, computer scientists, security and IT professionals, practitioners, stakeholders, researchers, academicians, and students interested in how mobile technologies and applications are implementing security protocols and tactics amongst devices.

Moving Businesses Online and Embracing E-Commerce: Impact and Opportunities Caused by COVID-19

Impact and Opportunities Caused by COVID-19

IGI Global The COVID-19 pandemic caused global shock to the entire economic system. As a result of the government restrictions, both production and distribution channels were interrupted. In this situation, however, it was possible to observe that some companies were able to adapt to these new conditions. The demand for the possibility of translating physical business into virtual increased. The COVID-19 restrictions showed that many entrepreneurs do not have enough knowledge about the available online tools and possibilities. Given that the digital transformation of business today often consists only of incorporating existing tools into existing processes, transition to e-commerce could be made easily and quickly. Moving Businesses Online and Embracing E-Commerce: Impact and Opportunities Caused by COVID-19 analyzes the impact of COVID-19-related restrictions on business models of enterprises affected most by these restrictions and examines transformational changes induced by the accelerated adoption of internet technologies and transition to e-commerce-based business models. Covering topics such as customer relationship management (CRM), small and medium enterprises (SMEs), and customer loyalty, this book serves as an essential resource for business owners, CEOs, managers, IT consultants, web developers, students, professors, entrepreneurs, researchers, industry professionals, and academicians.

Advances in Smart Grid Technology

Select Proceedings of PECCON 2019—Volume I

Springer Nature This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Legal Issues of Mobile Apps

A Practical Guide

Kluwer Law International B.V. **In less than ten years touchscreen smartphones and their apps have created an unprecedented technological revolution. Yet they are rife with serious potential for breaches of privacy and security, and a lack of uniform rules makes navigation of the legal landscape extremely difficult. Addressing this unstable regulatory environment, this concise, practical guide for the first time provides a measure of legal certainty. It examines case law and legislation in Europe and the United States to highlight the rights and obligations of all actors involved in the marketing of mobile apps, bring to light essential principles and recommend some viable solutions. Nine experts, all versed in the latest developments in international and national laws and regulations affecting digital mobile technology, examine such key topics as the following: contract law as applied to the sale and use of smartphone apps; intellectual property rights in mobile apps; protection of users; data protection; European Union (EU) medical device legislation and its safety implications for app users; fitness or wellness apps; apps' collection of personal data; apps as hostile code and malware delivery mechanisms; competition law issues; taxation of mobile apps; liability issues for app developers and distributors; and implications of the EU's new regulatory framework on online platforms. Because it is difficult for a basic user to understand how vulnerable everyday apps can be, and because every new information technology platform delivers new risks along with its benefits, legal practitioners working in a wide variety of fields will be increasingly called upon to engage with both personal and enterprise security and privacy breach cases arising from the use of mobile apps. This deeply informed practical analysis goes a long way toward ensuring appropriate handling of legal issues which arise in the mobile app context. Every practitioner, government official and software developer will welcome this much-needed volume.**