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By providing a comprehensive theoretical framework, this book aims to map the most relevant technologies that have the potential to reshape the retail industry. The authors demonstrate how technology is pushing innovation, and examine how smart technologies can be fruitfully applied both in-store and through digital channels. The aim of the book is to synthesise theory and practice, and provide a richer understanding of new digital opportunities offered by the 'smart' experience. An accessible resource for researchers who want to understand this phenomenon as part of their expertise in digital marketing and e-commerce, Smart Retailing also provides insights for practitioners who are experiencing the dramatic effects of new technologies on their retail strategies. The book expands and formalizes the conceptual foundations of Climate-Smart Agriculture, drawing upon theory and concepts from agricultural development, institutional and resource economics. The book uses economic lens to identify the main features of CSA, its likely impact, and the challenges associated with its implementation. It is a product of the EPIC team in the ESA division and contributes to SO2 OO2. Climate Smart Agriculture (CSA) is a concept that calls for integration of the need for adaptation and the possibility of mitigation in agricultural growth strategies to support food security. Several countries around the world have expressed intent to adopt CSA approach to managing their agricultural sectors. However there is considerable confusion about what the CSA concept and approach actually involve, and wide variation in how the term is used. It is critical to build a more formal basis for the CSA concept and methodology and at the same time providing illustrations of how the concept can be applied across a range of conditions. This book highlights the work of several world-class researchers on smart modeling of complex systems. The contributions are grouped into the four main categories listed below. · Numerical schemes construction for the solution of partial differential equations. · Numerical methods in continuum media mechanics problems. · Mathematical modeling in aerodynamics, plasma physics, deformable body mechanics, and geological hydrocarbon exploration. · Mathematical modeling in medical applications. The book offers a valuable resource for theoreticians and application scientists and engineers, as well as postgraduate students, in the fields of computational methods, numerical experiments, parallel algorithms, deformable solid bodies, seismic stability, seismic prospecting, migration, elastic and acoustic wave investigation, gas dynamics, astrophysics, aerodynamics, fluid dynamics, turbulent flows, hypersonic flows, detonation waves, composite materials, fracture mechanics, melting of metals, mathematical economics, medicine, and biology. This book provides proven strategies and solutions that you can use to put smart growth management into action. Includes pros and cons, difficulties, and describes what worked and what hasn't. Includes mixed-use projects, conserving open space, expanding transportation options, creating livable communities, suburban greenfields, and the roles of players involved. This book describes for readers technology used for effective sensing of our physical world and intelligent processing techniques for sensed information, which are essential to the success of Internet of Things (IoTs). The authors provide a multidisciplinary view of sensor technology from materials, process, circuits, and big data domains and showcase smart sensor systems in real applications including smart home, transportation, medical, environmental, agricultural, etc. Unlike earlier books on sensors, this book will provide a "global" view on smart sensors covering abstraction levels from device, circuit, systems, and algorithms. Profiles active research on smart sensors based on CMOS microelectronics; Describes applications of sensors and sensor systems in cyber physical systems, the social information infrastructure in our modern world; Includes coverage of a variety of related information technologies supporting the application of sensors; Discusses the integration of computation, networking, actuation, databases, and various sensors, in order to embed smart sensor systems into actual social systems. Provides information and inspiration on bathroom design, including working with professionals, developing a budget, rearranging space, selecting products and materials, and incorporating safety into a design plan. This book provides a comprehensive introduction to embedded systems for smart appliances and energy management, bringing together for the first time a multidisciplinary blend of topics from embedded systems, information technology and power engineering. Coverage includes challenges for future resource distribution grids, energy management in smart appliances, micro energy generation, demand response management, ultra-low power stand by, smart standby and communication networks in home and building automation. Digital Twin Driven Smart Design draws on the latest industry practice and research to establish a basis for the implementation of digital twin technology in product design. Coverage of relevant design theory and methodology is followed by detailed discussions of key enabling technologies that are supported by cutting-edge case studies of implementation. This groundbreaking book explores how digital twin technology can bring improvements to different kinds of product design process, including functional, lean and green. Drawing on the work of researchers at the forefront of this technology, this book is the ideal guide for anyone interested in digital manufacturing or computer-aided design. Provides detailed case studies that explore key applications of digital twin technology in design practice Introduces the concept of using digital twins to create the virtual commissioning of design projects Presents a framework to help engineers incorporate digital twins into their product design process Smart

Cities and the UN's SDGs explores how smart cities initiatives intersect with the global goal of making urbanization inclusive, resilient, and sustainable. Topics explored include digital governance, e-democracy, health care access, public-private partnerships, well-being, and more. Examining smart cities concepts, tools, strategies, and obstacles and their applicability to sustainability, the book exposes key structural problems that cities face and how the imperative of sustainability can bypass them. It shows how smart city technological innovation can boost citizens' well-being, serving as a key reference for those seeking to make sense of the issues and challenges of smart cities and SDGs. Includes numerous case studies from around the world Features interdisciplinary insights from academic and practitioner experts Offers an extensive literature review This book explores the ways in which the broad range of technologies that make up the smart city infrastructure can be harnessed to incorporate more playfulness into the day-to-day activities that take place within smart cities, making them not only more efficient but also more enjoyable for the people who live and work within their confines. The book addresses various topics that will be of interest to playable cities stakeholders, including the human-computer interaction and game designer communities, computer scientists researching sensor and actuator technology in public spaces, urban designers, and (hopefully) urban policymakers. This is a follow-up to another book on Playable Cities edited by Anton Nijholt and published in 2017 in the same book series, Gaming Media and Social Effects. "Meeting a huge demand, Peg Dawson and Richard Guare (authors of the bestselling Smart but Scattered books focusing on kids and teens) now provide a state of the art resource specifically geared to adults. Drs. Dawson and Guare offer expert guidance for boosting executive skills--the core brain based abilities needed to get more done with less stress. Readers will be drawn in by realistic examples, self quizzes, and science based tools for strengthening time management, organization, emotional control, and more. And what you can't change, you can work around! The book is packed with simple yet effective strategies for maintaining focus, conquering clutter, staying on top of work demands, and taming the chaos of family life. Numerous worksheets and forms (which purchasers can download and print in a convenient 8 Artificial Intelligence (AI) in general and machine learning (ML) and deep learning (DL) in particular and related digital technologies are a couple of fledging paradigms that next-generation healthcare services are sprinting towards. These digital technologies can transform various aspects of healthcare, leveraging advances in computing and communication power. With a new spectrum of business opportunities, AI-powered healthcare services will improve the lives of patients, their families, and societies. However, the application of AI in the healthcare field requires special attention given the direct implication with human life and well-being. Rapid progress in AI leads to the possibility of exploiting healthcare data for designing practical tools for automated diagnosis of chronic diseases such as dementia and diabetes. This book highlights the current research trends in applying AI models in various disease diagnoses and prognoses to provide enhanced healthcare solutions. The primary audience of the book are postgraduate students and researchers in the broad domain of healthcare technologies. Features In-depth coverage of the role of AI in smart healthcare Research guidelines for AI and data science researchers/practitioners interested in the healthcare sector Comprehensive coverage on security and privacy issues for AI in smart healthcare "Automated decisions systems are probably already being used in your industry, and they will undoubtedly grow in importance. If your business needs to make quick, accurate decisions on an industrialized scale, you need to read this book." Thomas H. Davenport, Professor, Babson College, Author of Competing on Analytics The computer-based systems most organizations rely on to support their businesses are not very smart. Many of the business decisions these companies make tend to be hidden in systems that make poor decisions, or don't make them at all. Further, most systems struggle to keep up with the pace of change. The answer is not to implement newer, "intelligent" systems. The fact is that much of today's existing technology has the potential to be "smart enough" to make a big difference to an organization's business. This book tells you how. Although the business context and underlying principles are explained in a nontechnical manner, the book also contains how-to guidance for more technical readers. The book's companion site, [www.smartnoughsystems.com](http://www.smartnoughsystems.com), has additional information and references for practitioners as well as news and updates. Additional Praise for Smart (Enough) Systems "James Taylor and Neil Raden are on to something important in this book--the tremendous value of improving the large number of routine decisions that are made in organizations every day." Dr. Hugh J. Watson, Chair of Business Administration, University of Georgia "This is a very important book. It lays out the agenda for business technology in the new century--nothing less than how to reorganize every aspect of how a company treats its customers." David Raab, President, ClientXClient "This book is an important contribution to business productivity because it covers the opportunity from both the business executive's and technologist's perspective. This should be on every operational executive's and every CIO's list of essential reading." John Parkinson, Former CTO, Capgemini, North American Region "This book shows how to use proven technology to make business processes smarter. It clearly makes the case that organizations need to optimize their operational decisions. It is a must-have reference for process professionals throughout your organization." Jim Sinur, Chief Strategy Officer, Global 360, Inc. This accessible guide supports school and education settings in co-producing SMART targets for education health and care plans, SEN support plans, and personal education plans. It will be essential reading for SENCOs, designated leads for safeguarding, teachers, senior leaders in both mainstream and specialist settings. Cyber-Physical Systems (CPS) integrate computing and communication capabilities by monitoring and controlling the physical systems via embedded hardware and computers. This book brings together new and futuristic findings on IoT, Cyber Physical Systems and Robotics leading towards Automation and solving issues of various critical applications in Real-time. The book initially overviews the concepts of IoT, IIoT and Cyber Physical Systems followed by various critical applications and discusses the latest designs and developments that provide common solutions for the convergence of technologies. In addition, the book specifies methodologies, algorithms and other relevant architectures in various fields that include Automation, Robotics, Smart Agriculture and Industry 4.0. The book is intended for practitioners, enterprise representatives, scientists, students and Ph.D Scholars in hopes of steering research further towards cyber physical systems design and development and implementation across various domains. Additionally, this book can be used as a secondary reference, or rather one-stop guide, by professionals for real-life implementation of cyber physical systems. The book highlights: • A Critical Coverage of various domains: IoT, Cyber Physical Systems, Industry 4.0, Smart Automation and related critical applications. • Advanced elaborations for target audiences to understand the conceptual methodology and future directions of cyber physical systems and IoT. • An approach towards Research Orientations to enable researchers to point out areas and scope for implementation of Cyber Physical Systems in several domains for better productivity. This book is intended to assist in the development of smart and efficient green energy solutions. It introduces energy systems, power generation, and power demands which able to minimise generation costs, power loss or environmental effects. It proposes cutting-edge solutions and approaches based on recent technologies such as intelligent renewable energy systems (wind and solar). These solutions, applied to different sectors, can provide a solid basis for meeting the needs of both developed and developing countries. The book provides a collection of contributions including new techniques, methods, algorithms, practical solutions and models based on applying artificial intelligence and the Internet of things into green energy management systems. It provides a comprehensive reference for researchers, scholars and industry in the field of green energy and computational intelligence. Electric Vehicle Integration in a Smart Microgrid Environment The growing demand for energy in today's world, especially in the Middle East and Southeast Asia, has been met with massive exploitation of fossil fuels, resulting in an increase in environmental pollutants. In order to mitigate the issues arising from conventional internal combustion engine-powered vehicles, there has been a considerable acceleration in the adoption of electric vehicles (EVs). Research has shown that the impact of fossil fuel use in transportation and surging demand in power owing to the growing EV charging infrastructure can potentially be minimized by smart microgrids. As EVs find wider acceptance with major advancements in high efficiency drivetrain and vehicle design, it has become clear

that there is a need for a system-level understanding of energy storage and management in a microgrid environment. Practical issues, such as fleet management, coordinated operation, repurposing of batteries, and environmental impact of recycling and disposal, need to be carefully studied in the context of an ageing grid infrastructure. This book explores such a perspective with contributions from leading experts on planning, analysis, optimization, and management of electrified transportation and the transportation infrastructure. The primary purpose of this book is to capture state-of-the-art development in smart microgrid management with EV integration and their applications. It also aims to identify potential research directions and technologies that will facilitate insight generation in various domains, from smart homes to smart cities, and within industry, business, and consumer applications. We expect the book to serve as a reference for a larger audience, including power system architects, practitioners, developers, new researchers, and graduate-level students, especially for emerging clean energy and transportation electrification sectors in the Middle East and Southeast Asia. The use of cyber-physical systems in recent computing, communication, and control methods to design and operate intelligent and autonomous systems using cutting-edge technologies has led to many advances. By studying emerging trends in these systems, programming techniques can be optimized and strengthened to create a higher level of effectiveness. Cyber-Physical Systems for Next-Generation Networks provides emerging research on using cyber-physical systems (CPS) as a method to control design and operation of intelligent systems through next-generation networks. While highlighting issues such as increasing CPS complexity due to components within physical and industrial systems, this publication explores information on real-time sensing, reasoning, and adaptation for cyber-physical systems while gaining an understanding of evolutionary computing for it. This book is a valuable resource for engineers, academicians, researchers, and graduate-level students seeking current research on CPS in cutting-edge technologies. The SMART Approach to Spine Clinical Research is a must-have guide for spine care professionals seeking to make a meaningful contribution to the scientific literature and advance their careers by publishing high-quality clinical research. Planning, conducting, and publishing the results of your clinical research can be a long and arduous journey. The SMART Approach to Spine Clinical Research presents and explains the many interrelated components essential to spine clinical research in an easily accessible way, guiding you step-by-step through the principles and methods of planning and evaluating clinical research. Also addressed are special topics such as getting your manuscript published and conducting a meta-analysis. This SMART approach provides a clear and simple road map for the planning, execution, and critical appraisal of clinical research. We are currently witnessing the launch and development of many new learning management system (LMS) innovations whose main objective is to meet society's requirements and the knowledge economy, which is fully emerging. Understanding new LMS innovations is essential for the improvement of the training and learning processes. To effectively implement these new LMSs in the classroom, teachers and trainers need access to real-life cases in which these methods were successfully used. New smart LMSs should be easy to use and to administer online educational content to ensure better adaptation to course teaching and learning styles. Therefore, it is necessary to find a method of modeling for all types of LMS. By combining learning theories that have long inspired the design of computer applications and putting them into perspective with emerging education features, a new smart LMS can be developed and studied. Modeling and Prototyping New Smart Learning Management Systems is a critical scholarly resource that examines current advances in educational innovation and presents cases that allow for the improvement of personalized and active learning. It examines diverse issues of social, organizational, economic, cultural, and technological context related to internal and external management of learning and teaching and their technological improvements. The chapters cover issues, methods, models, constructs, solution applications, or specific architectures and theories in LMS and feature a wide range of topics such as higher education, teacher education, and learning strategies. This book is ideal for graduate-level students, researchers and industry practitioners, engineers, research scientists/academicians, educational administrators, educational professionals, teachers and professors, and researchers involved in practical applications of engineering-pedagogical and didactic aspects in learning management systems. In this book the authors first provide a comprehensive survey on the available studies on control, management, and optimization strategies in AC and DC microgrids. The authors then provide the design of a laboratory-scale microgrid system. Finally, a real-world implementation of the designed framework is provided. This book paves the way for researchers working on the smart microgrids spread over the fields of electrical engineering, power systems, and smart infrastructures. Furthermore, it provides the readers with a comprehensive insight to understand an in-depth big picture of smart microgrids as well as an all-inclusive framework for laboratory-scale implementation of a microgrid. It is suitable for senior undergraduate students, graduate students who are interested in research in areas related to future smart grids and microgrids, and the researchers working in the related areas. This book also can be used as a reference book for researchers who want to develop laboratories on smart microgrids for future research. This book sets the innovative research contributions, works, and solutions for almost all the intelligent and smart applications in the smart cities. The smart city concept is a relevant topic for industrials, governments, and citizens. Due to this, the smart city, considered as a multi-domain context, attracts tremendously academics researchers and practitioners who provide efforts in theoretical proofs, approaches, architectures, and in applied researches. The importance of smart cities comes essentially from the significant growth of populations in the near future which conducts to a real need of smart applications that can support this evolution in the future cities. The main scope of this book covers new and original ideas for the next generations of cities using the new technologies. The book involves the application of the data science and AI, IoT technologies and architectures, smart earth and water management, smart education and E-learning systems, smart modeling systems, smart mobility, and renewable energy. It also reports recent research works on big data technologies, image processing and recognition systems, and smart security and privacy. With the rise of information and communication technologies in today's world, many regions have begun to adapt into more resource-efficient communities. Integrating technology into a region's use of resources, also known as smart territories, is becoming a trending topic of research. Understanding the relationship between these innovative techniques and how they impact social innovation is vital when analyzing the sustainable growth of highly populated regions. The Handbook of Research on Smart Territories and Entrepreneurial Ecosystems for Social Innovation and Sustainable Growth is a pivotal reference source that provides vital research on the global practices and initiatives of smart territories as well as their impact on sustainable development in different communities. While highlighting topics such as waste management, social innovation, and digital optimization, this publication is ideally designed for civil engineers, urban planners, policymakers, economists, administrators, social scientists, business executives, researchers, educators, and students seeking current research on the development of smart territories and entrepreneurship in various environments. This book presents the latest findings and ongoing research in the field of green information systems and green information and communication technology (ICT). It provides insights into a whole range of cross-cutting topics in ICT and environmental sciences as well as showcases how information and communication technologies allow environmental and energy efficiency issues to be handled effectively. The papers presented in this book are a selection of extended and improved contributions to the 28th International Conference on Informatics for Environmental Protection dedicated to ICT for energy efficiency. This book is essential and particularly worth reading for those who already gained basic knowledge and want to deepen and extend their expertise in the subjects mentioned above. Placing emphasis on practical "how-to" guidance, this cutting-edge resource provides a first-hand, insider's perspective on the advent and evolution of smart grids in the 21st century. This book presents engineers, researchers, and students with the building blocks that comprise basic smart grids, including power plant, transmission substation, distribution, and meter automation. Moreover, this forward-looking volume explores the next step of this technology's evolution. It provides a detailed explanation of how an advanced smart grid incorporates demand response with smart appliances and management mechanisms for distributed generation, energy

storage, and electric vehicles. This updated second edition focuses on the disruptive impact of DER. This new edition also includes a glossary with well over 100 acronyms and terms, acknowledging the tremendous challenge for a student of smart energy and smart grid to grasp this complex industry. Cities have always played a prominent role in the prosperity of civilization. Indeed, every great civilization we can think of is associated with the prominence of one or more thriving cities. And so understanding cities -- their inhabitants, their institutions, their infrastructure -- what they are and how they work independently and together -- is of fundamental importance to our collective growth as a human civilization. Furthermore, the 21st century "smart" city, as a result of global climate change and large-scale urbanization, will emerge as a societal grand challenge. This book focuses on the role of interdependent infrastructure systems in such smart cities especially as it relates to timely and poignant questions about resilience and sustainability. In particular, the goal of this book is to present, in one volume, a consistent Hetero-Functional Graph Theoretic (HFGT) treatment of interdependent smart city infrastructures as an overarching application domain of engineering systems. This work may be contrasted to the growing literature on multi-layer networks, which despite significant theoretical advances in recent years, has modeling limitations that prevent their real-world application to interdependent smart city infrastructures of arbitrary topology. In contrast, this book demonstrates that HFGT can be applied extensively to an arbitrary number of arbitrarily connected topologies of interdependent smart city infrastructures. It also integrates, for the first time, all six matrices of HFGT in a single system adjacency matrix. The book makes every effort to be accessible to a broad audience of infrastructure system practitioners and researchers (e.g. electric power system planners, transportation engineers, and hydrologists, etc.). Consequently, the book has extensively visualized the graph theoretic concepts for greater intuition and clarity. Nevertheless, the book does require a common methodological base of its readers and directs itself to the Model-Based Systems Engineering (MBSE) community and the Network Science Community (NSC). To the MBSE community, we hope that HFGT will be accepted as a quantification of many of the structural concepts found in model-based systems engineering languages like SysML. To the NSC, we hope to present a new view as how to construct graphs with fundamentally different meaning and insight. Finally, it is our hope that HFGT serves to overcome many of the theoretical and modeling limitations that have hindered our ability to systematically understand the structure and function of smart cities. Within educational organizations, administration and leadership are relied upon for the allocation of resources as well as the optimization of processes that can include data storage, knowledge management, and decision making. To support these expectations, technologies, knowledge, and smart systems must be put into place that allow administrators and leaders to accomplish these tasks as efficiently as possible. Utilizing Technology, Knowledge, and Smart Systems in Educational Administration and Leadership is an academic research book that examines knowledge regarding the scholarly exploration of the technologies, information/knowledge, and smart systems in educational administration and leadership. It provides a holistic, systematic, and comprehensive paradigm. Featuring a wide range of topics such as technology leadership in schools, technology integration in educational administration, and professional development, this book is ideal for school administrators, educational leaders, principals, IT consultants, educational software developers, academicians, researchers, professionals, educational policymakers, educators, and students. This edited open access book presents the comprehensive outcome of The European DataBio Project, which examined new data-driven methods to shape a bioeconomy. These methods are used to develop new and sustainable ways to use forest, farm and fishery resources. As a European initiative, the goal is to use these new findings to support decision-makers and producers – meaning farmers, land and forest owners and fishermen. With their 27 pilot projects from 17 countries, the authors examine important sectors and highlight examples where modern data-driven methods were used to increase sustainability. How can farmers, foresters or fishermen use these insights in their daily lives? The authors answer this and other questions for our readers. The first four parts of this book give an overview of the big data technologies relevant for optimal raw material gathering. The next three parts put these technologies into perspective, by showing useable applications from farming, forestry and fishery. The final part of this book gives a summary and a view on the future. With its broad outlook and variety of topics, this book is an enrichment for students and scientists in bioeconomy, biodiversity and renewable resources. Scientists have been warning for years that human activity is heating up the planet and climate change is under way. We are only just beginning to acknowledge the serious effects this will have on all life on Earth. The federal government is crafting broad-scale strategies to protect wildland ecosystems from the worst effects of climate change. One of the greatest challenges is to get the latest science into the hands of resource managers entrusted with vulnerable wildland ecosystems. This book examines climate and land-use changes in montane environments, assesses the vulnerability of species and ecosystems to these changes, and provides resource managers with collaborative management approaches to mitigate expected impacts. Climate Change in Wildlands proposes a new kind of collaboration between scientists and managers--a science-derived framework and common-sense approaches for keeping parks and protected areas healthy on a rapidly changing planet. The perception of smart cities encompasses a strategy that uses different types of technologies, artificial intelligence (AI), and machine learning and in which, through the internet of things (IoT) and sensor-based data collection, the strategy extrapolates information using insights gained from that data to manage or monitor or track assets, resources, and services efficiently in an urban area. Both these models deeply affect the localities where they are applied and can create together immense possibilities for urban recovery, better quality of life, physical and mental health protection, and economic and social redevelopment. Smart Cities and Machine Learning in Urban Health promotes interdisciplinary work that develops and illustrates the concept of resilience in relation to smart city and machine learning. The book examines the ability of an area and its communities to recover quickly from difficulties; the rigidity and resistance of an area and its communities to possible crisis; the ability of an area, its communities, infrastructure, and business to spring back into shape; and the responsiveness and mitigation towards the crisis with a special look at the impact of the COVID-19 pandemic. The research's theoretical foundation rests on a wide range of non-architectural sources, primarily AI, sociology, urban studies, and technological development, but it explores everything on cases taken from real cities, thus transforming them into pieces of architectural interest. Covering topics such as carbon emissions, digital healthcare systems, and urban transformation, this book is an essential resource for graduate and post-graduate students, policymakers, researchers, university faculty, engineers, public management, hospital administration, professors, and academicians. Comprehensive, cross-disciplinary coverage of Smart Grid issues from global expert researchers and practitioners. This definitive reference meets the need for a large scale, high quality work reference in Smart Grid engineering which is pivotal in the development of a low-carbon energy infrastructure. Including a total of 83 articles across 3 volumes The Smart Grid Handbook is organized in to 6 sections: Vision and Drivers, Transmission, Distribution, Smart Meters and Customers, Information and Communications Technology, and Socio-Economic Issues. Key features: Written by a team representing smart grid R&D, technology deployment, standards, industry practice, and socio-economic aspects. Vision and Drivers covers the vision, definitions, evolution, and global development of the smart grid as well as new technologies and standards. The Transmission section discusses industry practice, operational experience, standards, cyber security, and grid codes. The Distribution section introduces distribution systems and the system configurations in different countries and different load areas served by the grid. The Smart Meters and Customers section assesses how smart meters enable the customers to interact with the power grid. Socio-economic issues and information and communications technology requirements are covered in dedicated articles. The Smart Grid Handbook will meet the need for a high quality reference work to support advanced study and research in the field of electrical power generation, transmission and distribution. It will be an essential reference for regulators and government officials, testing laboratories and certification organizations, and engineers and researchers in Smart Grid-related industries. There's nothing more frustrating than watching your bright, talented son or daughter struggle with everyday tasks like finishing

homework, putting away toys, or following instructions at school. Your "smart but scattered" 4- to 13-year-old might also have trouble coping with disappointment or managing anger. Drs. Peg Dawson and Richard Guare have great news: there's a lot you can do to help. The latest research in child development shows that many kids who have the brain and heart to succeed lack or lag behind in crucial "executive skills"--the fundamental habits of mind required for getting organized, staying focused, and controlling impulses and emotions. Learn easy-to-follow steps to identify your child's strengths and weaknesses, use activities and techniques proven to boost specific skills, and problem-solve daily routines. Helpful worksheets and forms can be downloaded and printed in a convenient 8 1/2" x 11" size. Small changes can add up to big improvements--this empowering book shows how. See also the authors' Smart but Scattered Teens and their self-help guide for adults. Plus, an academic planner for middle and high school students and related titles for professionals. Security and privacy protection within computer networks can be a challenge. By examining the current problems and challenges this domain is facing, more efficient strategies can be established to safeguard personal information against invasive pressures. Security and Privacy in Smart Sensor Networks is a critical scholarly resource that examines recent developments and emerging trends in smart sensor security and privacy by providing new models, practical solutions, and technological advances related to security. Featuring coverage on a broad range of topics such as cloud security, encryption, and intrusion detection systems, this book is geared towards academicians, engineers, IT specialists, researchers, and students seeking current research on authentication and intrusion detection. Book 5 of the Smart Skills series: practical guides to mastering vital business skills and techniques. Using proven strategies from business experts, these essential smart skills can empower anyone with the tools to get ahead. The only book you need to succeed in the world of business In today's working environment, building your career success can seem like a minefield, thanks to increasing levels of competition, accountability, limited potential for advancement, and a lack of opportunities available. The only way to stay on top of the game is to build up your 'soft skills' and accumulate useful experience that makes you stand out from the crowd. This concise and simple Smart Skills guide will show how and where to focus your energies when you want to become a more successful professional: Developing your skills and competencies Capitalising on your resources, strengths and weaknesses Building strong work relationships Increasing your visibility in and out of the workplace Making best use of your business knowledge With these easy steps, professionals at any grade can achieve peak performance and start climbing that ladder to career success. A comprehensive tutorial on the design and practical applications of antenna arrays An antenna array is an assembly of antenna elements that maximizes a received or transmitted signal in a desired direction. This practical book covers a wide range of antenna array topics that are becoming increasingly important in wireless applications, with emphasis on array design, applications, and computer modeling. Each chapter in Antenna Arrays builds upon the previous chapter, progressively addressing more difficult material. Beginning with basic electromagnetics/antennas/antenna systems information, the book then deals with the analysis and synthesis of arrays of point sources and their associated array factors. It presents a sampling of different antenna elements that replace these point sources, then presents element configurations that do not have to lie along a line or in a plane. The complex and difficult-to-predict interactions of elements and electromagnetic waves are introduced, along with computer modeling and experiments that are necessary for predicting the performance of arrays where mutual coupling is important. Then, various approaches to getting signals to and from the array elements to a computer where the signal detection takes place are explored, as are the numerical techniques behind smart antennas. The book emphasizes the computational methods used in the design and analysis of array antennas. Also featured are signal processing and numerical modeling algorithms, as well as pictures of antenna arrays and components provided by industry and government sources, with explanations of how they operate. Fully course-tested, Antenna Arrays serves as a complete text in phased array design and theory for advanced undergraduate- and graduate-level courses in electronics and communications, as well as a reference for practicing engineers and scientists in wireless communications, radar, and remote sensing. Breakthroughs in Smart City Implementation should give answers on a wide variety of present social, political and technological problems. Green and long-lasting solutions are needed in coming 10 years and beyond on areas as green and long lasting solutions for improving air quality, quality of life of residents in cities, traffic congestions and many more. Two Conasense branches, established in China and in India, report in six book chapters on initiatives needed to overcome the obvious shortcomings at present. Three more chapters complete this fifth Conasense book: an introductory chapter concerning Smart City from Conasense perspective, a chapter showing that not technology but the people in the cities are most important and a chapter on recent results and prospects of "Human in the Loop" in smart vehicular systems. In this book, theory of large scale optimization is introduced with case studies of real-world problems and applications of structured mathematical modeling. The large scale optimization methods are represented by various theories such as Benders' decomposition, logic-based Benders' decomposition, Lagrangian relaxation, Dantzig-Wolfe decomposition, multi-tree decomposition, Van Roy' cross decomposition and parallel decomposition for mathematical programs such as mixed integer nonlinear programming and stochastic programming. Case studies of large scale optimization in supply chain management, smart manufacturing, and Industry 4.0 are investigated with efficient implementation for real-time solutions. The features of case studies cover a wide range of fields including the Internet of things, advanced transportation systems, energy management, supply chain networks, service systems, operations management, risk management, and financial and sales management. Instructors, graduate students, researchers, and practitioners, would benefit from this book finding the applicability of large scale optimization in asynchronous parallel optimization, real-time distributed network, and optimizing the knowledge-based expert system for convex and non-convex problems. Engaging and lively, clear and practical, this is the most applied accounting for non-specialists book whose fully integrated case study emphasises the relevance of accounting to the world of business. Sam Smart is the budding entrepreneur who forms the basis of the case study at the heart of this book. We follow Sam as he goes from starting a small business, printing sports kits for local teams, to managing a global sports business. Throughout the course of the book he assesses the success of his business, finances day to day activities, makes pricing decisions, opens new branches, looks at cash flow, and facilitates planning, control, and investment. Featured at the start of every chapter to highlight to students the implications and applications of the topic they are about to study, Sam and his business provide consistency and connection. As we follow the case study, all the topics central to accounting are covered with clarity, imagination, and relevance, giving students the support they need to complete their course and exams with confidence. The wealth of additional examples and self-test exercises available alongside the case study enable students not only to develop an appreciation of how accounting information allows a manager to make key business decisions, but also to acquire the skills necessary to enable them to converse with accountants, and challenge their assumptions and methodologies. An Online Resource Centre accompanies the text book and includes: For Students: Flashcard glossary Multiple choice questions Additional practice questions with answers Tables from the text For Lecturers: Solutions to end-of-part case studies Additional end-of-part case studies (with solutions) Assessment guide PowerPoint presentations Test bank Intervals of high-activity alternating with long low-activity periods can be found in many areas of daily life, with researchers coining the phenomenon as bursts. As burstiness has become prevalent in many fields, understanding it and knowing how to manage it are crucial in order to be able to get all the benefits associated with it. Burstiness Management for Smart, Sustainable and Inclusive Growth: Emerging Research and Opportunities provides innovative insights into burstiness's role in decision-making in business and its function as a predictor of performance. The content within this publication covers topics such as burstiness in business and e-business applications, as well as consumer behavior and sustainable development. It is a vital reference source for business managers, business professionals, academicians, researchers, and graduate-level students interested in understanding how burstiness and its consequences are processed in diverse and dynamic environments. Practical information and design advice

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