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<?php FablessThe Transformation of the Semiconductor IndustryCreateSpaceThe purpose of this book is to illustrate the magnificence of the fabless semiconductor ecosystem, and to give credit where credit is due. We trace the history of the semiconductor industry from both a technical and business perspective. We argue that the development of the fabless business model was a key enabler of the growth in semiconductors since the mid-1980s. Because business models, as much as the technology, are what keep us thrilled with new gadgets year after year, we focus on the evolution of the electronics business. We also invited key players in the industry to contribute chapters. These “In Their Own Words” chapters allow the heavyweights of the industry to tell their corporate history for themselves, focusing on the industry developments (both in technology and business models) that made them successful, and how they in turn drive the further evolution of the semiconductor industry.Mathematics Education in the Digital AgeLearning, Practice and TheoryRoutledgeThe wide availability of digital educational resources for mathematics teaching and learning is indisputable, with some notable genres of technologies having evolved, such as graphing calculators, dynamic graphing, dynamic geometry and data visualization tools. But what does this mean for teachers of mathematics, and how do their roles evolve within this digital landscape? This essential book offers an international perspective to help bridge theory and practice, including coverage of networking theories, curriculum design, task implementation, online resources and assessment. Mathematics Education in the Digital Age details the impacts this digital age has, and will continue to have, on the parallel aspects of learning and teaching mathematics within formal education systems and settings. Written by a group of international authors, the chapters address the following themes: Mathematics teacher education and professional development Mathematics curriculum development and task design The assessment of mathematics Theoretical perspectives and methodologies/approaches for researching mathematics education in the digital age This book highlights not only the complex nature of the field, but also the advancements in theoretical and practical knowledge that is enabling the mathematics education community to continue to learn in this increasingly digital age. It is an essential read for all mathematics teacher educators and master teachers.Computer Methods in Biomechanics and Biomedical EngineeringCRC PressThese papers are concerned with new advances and novel solutions in the areas of biofluids, image-guided surgery, tissue engineering and cardiovascular mechanics, implant analysis, soft tissue mechanics, bone remodeling and motion analysis. The contents also feature a special section on dental materials, dental adhesives and orthodontic mechanics. This edition contains many examples, tables and figures, and together with the many references, provides the reader with invaluable information on the latest theoretical developments and applications.Globalization and DevelopmentA Latin American and Caribbean PerspectiveStanford University PressGlobalization and Development draws upon the experiences of the Latin American and Caribbean region to provide a multidimensional assessment of the globalization process from the perspective of developing countries. Based on a study by the United Nations Economic Commission for Latin America and the Caribbean (ECLAC), this book gives a historical overview of economic development in the region and presents both an economic and noneconomic agenda that addresses disparity, respects diversity, and fosters complementarity among regional, national, and international institutions. For orders originating outside of North America, please visit the World Bank website for a list of distributors and geographic discounts at <http://publications.worldbank.org/howtoorder> or e-mail pubdistributors@worldbank.org.Analytical Atomic Spectrometry with Flames and PlasmasJohn Wiley & SonsThis completely revised second edition of the standard work has been expanded by some twenty percent to include more information on the latest developments and new apparatus. In particular, sections have been added on microplasmas and new types of spectrometers, while that on the rapidly expanding field of speciations with practical examples from life and environmental sciences have been included. Still in one handy volume, the book covers all the important modern aspects of atomic fluorescence, emission and absorption spectroscopy as well as plasma mass spectroscopy in a readily comprehensible and practice-oriented manner. A thorough explanation of the physical, theoretical and technical basics, example applications including the concrete execution of analysis and comprehensive cross-references to the latest literature allow even newcomers easy access to the methodologies described.Lean Six Sigma for Small and Medium Sized EnterprisesA Practical GuideCRC PressIt is no secret that Lean Six Sigma (LSS) is not as popular with small and medium-sized enterprises (SMEs) as it is with larger ones. However, many SMEs are suppliers to larger entities who are pushing for superior quality and world-class process efficiencies from suppliers. Lean Six Sigma for Small and Medium Sized Enterprises: A Practical Guide provides a roadmap for the successful implementation and deployment of LSS in SMEs. It includes five real-world case studies that demonstrate how LSS tools have been successfully integrated into LSS methodology. Simplifying the terminology and methodology of LSS, this book makes the implementation process accessible. Supplies a general introduction to continuous improvement initiatives in SMEs Identifies the key phases in the introduction and development of LSS initiatives within an SME Details the most powerful LSS tools and techniques that can be used in an SME environment Provides tips on how to make the project selection process more successful This book covers the fundamental challenges and common pitfalls that can be avoided with successful introduction and deployment of LSS in the context of SMEs. Systematically guiding you through the application of the Six Sigma methodology for problem solving, the book devotes separate chapters to the most appropriate tools and techniques that can be useful in each stage of the methodology. Keeping the required math and statistics to a minimum, this practical guide will help you to deploy LSS as your prime methodology for achieving and sustaining world-class efficiency and effectiveness of critical business processes.NUREG/CR.AWS Certified Data Analytics Study GuideSpecialty (DAS-C01) ExamJohn Wiley & SonsMove your career forward with AWS certification! Prepare for the AWS Certified Data Analytics Specialty Exam with this thorough study guide This comprehensive study guide will help assess your technical skills and prepare for the updated AWS Certified Data Analytics exam. Earning this AWS certification will confirm your expertise in designing and implementing AWS services to derive value from data. The AWS Certified Data Analytics Study Guide: Specialty (DAS-C01) Exam is designed for business analysts and IT professionals who perform complex Big Data analyses. This AWS Specialty Exam guide gets you ready for certification testing with expert content,

real-world knowledge, key exam concepts, and topic reviews. Gain confidence by studying the subject areas and working through the practice questions. Big data concepts covered in the guide include: Collection Storage Processing Analysis Visualization Data security AWS certifications allow professionals to demonstrate skills related to leading Amazon Web Services technology. The AWS Certified Data Analytics Specialty (DAS-C01) Exam specifically evaluates your ability to design and maintain Big Data, leverage tools to automate data analysis, and implement AWS Big Data services according to architectural best practices. An exam study guide can help you feel more prepared about taking an AWS certification test and advancing your professional career. In addition to the guide’s content, you’ll have access to an online learning environment and test bank that offers practice exams, a glossary, and electronic flashcards.Bridging the Urban DivideUN-HABITATDeveloping a 21st Century Neuroscience WorkforceWorkshop SummaryNational Academies PressFrom its very beginning, neuroscience has been fundamentally interdisciplinary. As a result of rapid technological advances and the advent of large collaborative projects, however, neuroscience is expanding well beyond traditional subdisciplines and intellectual boundaries to rely on expertise from many other fields, such as engineering, computer science, and applied mathematics. This raises important questions about to how to develop and train the next generation of neuroscientists to ensure innovation in research and technology in the neurosciences. In addition, the advent of new types of data and the growing importance of large datasets raise additional questions about how to train students in approaches to data analysis and sharing. These concerns dovetail with the need to teach improved scientific practices ranging from experimental design (e.g., powering of studies and appropriate blinding) to improved sophistication in statistics. Of equal importance is the increasing need not only for basic researchers and teams that will develop the next generation of tools, but also for investigators who are able to bridge the translational gap between basic and clinical neuroscience. Developing a 21st Century Neuroscience Workforce is the summary of a workshop convened by the Institute of Medicine’s Forum on Neuroscience and Nervous System Disorders on October 28 and 29,2014, in Washington, DC, to explore future workforce needs and how these needs should inform training programs. Workshop participants considered what new subdisciplines and collaborations might be needed, including an examination of opportunities for cross-training of neuroscience research programs with other areas. In addition, current and new components of training programs were discussed to identify methods for enhancing data handling and analysis capabilities, increasing scientific accuracy, and improving research practices. This report highlights the presentation and discussion of the workshop.Democratic Competences and Social Practices in OrganizationsSpringer Science & Business MediaThe contributions in this book address the question of how to develop and foster democratic competences. This may take place via school curricula, resource materials and teaching/learning methods; in workplaces by means of formalised arrangements that encourage self-direction and through the informal processes engendered by expansive working environments; and in personal and community life, including in the course of incidental learning in social networks. The studies and analyses are somewhat nonconformist in its thematic spread and its boundary-crossing between disciplines and perspectives that conventionally live separate lives.The Concise Columbia EncyclopediaMount Vernon, N.Y. : Consumers UnionWidely praised when it was first published in 1983, The Concise Columbia Encyclopedia has now been painstakingly revised to produce an indispensable, up-to-the-minute reference work for home, office, or school. Illustrated.Encyclopedia of ManagementGale / Cengage LearningThis updated fifth edition of Encyclopedia of Management covers more than 300 topics in management theories and applications, written by academics and business professionals. All information has been reviewed and edited by the esteemed Dr. Marilyn M. Helms, sesquicentennial endowed chair and professor of management at Dalton State College.BytePower supplies and amplifiersPower System SCADA and Smart GridsCRC PressPower System SCADA and Smart Grids brings together in one concise volume the fundamentals and possible application functions of power system supervisory control and data acquisition (SCADA). The text begins by providing an overview of SCADA systems, evolution, and use in power systems and the data acquisition process. It then describes the components of SCADA systems, from the legacy remote terminal units (RTUs) to the latest intelligent electronic devices (IEDs), data concentrators, and master stations, as well as: Examines the building and practical implementation of different SCADA systems Offers a comprehensive discussion of the data communication, protocols, and media usage Covers substation automation (SA), which forms the basis for transmission, distribution, and customer automation Addresses distribution automation and distribution management systems (DA/DMS) and energy management systems (EMS) for transmission control centers Discusses smart distribution, smart transmission, and smart grid solutions such as smart homes with home energy management systems (HEMs), plugged hybrid electric vehicles, and more Power System SCADA and Smart Grids is designed to assist electrical engineering students, researchers, and practitioners alike in acquiring a solid understanding of SCADA systems and application functions in generation, transmission, and distribution systems, which are evolving day by day, to help them adapt to new challenges effortlessly. The book reveals the inner secrets of SCADA systems, unveils the potential of the smart grid, and inspires more minds to get involved in the development process.Aircraft Communications and Navigation Systems, 2nd edRoutledgeIntroducing the principles of communications and navigation systems, this book is written for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular will be suitable for those studying for licensed aircraft maintenance engineer status. It systematically addresses the relevant sections (Air Transport Association of America chapters 23/34) of modules 11 and 13 of part-66 of the European Aviation Safety Agency (EASA) syllabus and is ideal for anyone studying as part of an EASA and FAR-147-approved course in aerospace engineering. Delivers the essential principles and knowledge base required by Airframe and Propulsion (A&P) Mechanics for Modules 11 and 13 of the EASA Part-66 syllabus and BTEC National awards in aerospace engineering Supports mechanics, technicians and engineers studying for a Part-66 qualification Comprehensive and accessible, with self-test questions, exercises and multiple choice questions to enhance learning for both independent and tutor-assisted study Additional resources and interactive materials are available at the book’s companion website at www.66web.co.ukThe Communications Act of 1934, as AmendedGPU gemsprogramming techniques, tips, and tricks for real-time graphicsRetrofitting CitiesPriorities, Governance and ExperimentationCRC

PressDeveloping an up-to-date critical framework for analysing urban retrofit, this is the first book to examine urban re-engineering for sustainability in a socio-technical context. Retrofitting Cities examines why retrofit is emerging as an important strategic issue for urban authorities and untangles the mix of economic, competitive, ecological and social drivers that influence any transition towards a more sustainable urban environment. Retrofitting Cities comparatively explores how urban scale retrofitting can be conceptualised as a socio-technical transition; to critically compare and contrast different national styles of response in cities of the north and global south; and, to develop new research and policy agendas on future development of progressive retrofitting. Bringing together a group of researchers from a variety of disciplinary backgrounds that reflect the complexity of the research challenge, Retrofitting cities looks across different infrastructures and types of built environment, dealing with diverse urban contexts and examining formal as well as community responses. This is a uniquely practical book for urban planning and policy professionals as well as for researchers in urban studies and urban design.City Project and Public SpaceSpringer Science & Business MediaThe book aims at nurturing theoretic reflection on the city and the territory and working out and applying methods and techniques for improving our physical and social landscapes. The main issue is developed around the projectual dimension, with the objective of visualising both the city and the territory from a particular viewpoint, which singles out the territorial dimension as the city's space of communication and negotiation. Issues that characterise the dynamics of city development will be faced, such as the new, fresh relations between urban societies and physical space, the right to the city, urban equity, the project for the physical city as a means to reveal civitas, signs of new social cohesiveness, the sense of contemporary public space and the sustainability of urban development. Authors have been invited to explore topics that feature a pluralism of disciplinary contributions studying formal and informal practices on the project for the city and seeking conceptual and operative categories capable of understanding and facing the problems inherent in the profound transformations of contemporary urban landscapes.Big Data and AnalyticsStrategic and Organizational ImpactsSpringerThis book presents and discusses the main strategic and organizational challenges posed by Big Data and analytics in a manner relevant to both practitioners and scholars. The first part of the book analyzes strategic issues relating to the growing relevance of Big Data and analytics for competitive advantage, which is also attributable to empowerment of activities such as consumer profiling, market segmentation, and development of new products or services. Detailed consideration is also given to the strategic impact of Big Data and analytics on innovation in domains such as government and education and to Big Data-driven business models. The second part of the book addresses the impact of Big Data and analytics on management and organizations, focusing on challenges for governance, evaluation, and change management, while the concluding part reviews real examples of Big Data and analytics innovation at the global level. The text is supported by informative illustrations and case studies, so that practitioners can use the book as a toolbox to improve understanding and exploit business opportunities related to Big Data and analytics.Critical Infrastructure Protection XV15th IFIP WG 11.10 International Conference, ICCIP 2021, Virtual Event, March 15-16, 2021, Revised Selected PapersSpringerThe information infrastructure – comprising computers, embedded devices, networks and software systems – is vital to operations in every sector: chemicals, commercial facilities, communications, critical manufacturing, dams, defense industrial base, emergency services, energy, financial services, food and agriculture, government facilities, healthcare and public health, information technology, nuclear reactors, materials and waste, transportation systems, and water and wastewater systems. Global business and industry, governments, indeed society itself, cannot function if major components of the critical information infrastructure are degraded, disabled or destroyed. Critical Infrastructure Protection XV describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. Areas of coverage include: Industrial Control Systems Security; Telecommunications Systems Security; Infrastructure Security. This book is the fourteenth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.10 on Critical Infrastructure Protection, an international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts focused on infrastructure protection. The book contains a selection of 13 edited papers from the Fifteenth Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection, held as a virtual event during the spring of 2021. Critical Infrastructure Protection XV is an important resource for researchers, faculty members and graduate students, as well as for policy makers, practitioners and other individuals with interests in homeland security.Fundamentals of Cyber SecurityBPP PublicationsDescription-The book has been written in such a way that the concepts are explained in detail, givingadequate emphasis on examples. To make clarity on the topic, diagrams are given extensively throughout the text. Various questions are included that vary widely in type and difficulty to understand the text. This text is user-focused and has been highly updated including topics, pictures and examples. The book features the most current research findings in all aspects of information Security. From successfully implementing technology change to understanding the human factors in IT utilization, these volumes address many of the core concepts and organizational applications, implications of information technology in organizations.Key FeaturesA* Comprehensive coverage of various aspects of cyber security concepts.A* Simple language, crystal clear approach, straight forward comprehensible presentation. A* Adopting user-friendly classroom lecture style. A* The concepts are duly supported by several examples. A* Previous years question papers are also included. A* The important set of questions comprising of more than 90 questions with short answers are also included. Table of Contents:Chapter-1 : Introduction to Information SystemsChapter-2 : Information SecurityChapter-3 : Application SecurityChapter-4 : Security ThreatsChapter-5 : Development of secure Information SystemChapter-6 : Security Issues In HardwareChapter-7 : Security PoliciesChapter-8 : Information Security StandardsModel Predictive Control mit MATLAB und SimulinkModel Predictive Control with MATLAB and SimulinkBoD – Books on DemandModellbasierte prädiktive Regelungen dienen der Lösung anspruchsvoller Aufgaben der Mehrgrößenregelung mit Beschränkungen der Stell- und Regelgrößen. Sie werden in der Industrie in vielen Bereichen erfolgreich eingesetzt. Mit der MPC Toolbox™ des Programmsystems MATLAB®/Simulink® steht ein Werkzeug zur Verfügung, das sowohl in der industriellen Praxis als auch an Universitäten und Hochschulen verwendet wird. Das vorliegende Buch gibt eine Übersicht über die Grundideen und Anwendungsvorteile des MPC-Konzepts. Es zeigt, wie mit Hilfe der Toolbox MPC-Regelungen entworfen, eingestellt und simuliert werden können. Ausgewählte Beispiele aus dem Bereich der Verfahrenstechnik demonstrieren mögliche Vorgehensweisen und vertiefen das Verständnis. Das Buch richtet sich an in der Industrie tätige Ingenieure, die MPC-Regelungen planen, entwickeln und betreiben, aber auch an Studierende technischer

Fachdisziplinen, die in das Arbeitsgebiet MPC einsteigen wollen. Model Predictive Control (MPC) is used to solve challenging multivariable-constrained control problems. MPC systems are successfully applied in many different branches of industry. The MPC Toolbox™ of MATLAB®/Simulink® provides powerful tools for industrial MPC application, but also for education and research at technical universities. This book gives an overview of the basic ideas and advantages of the MPC concept. It shows how MPC systems can be designed, tuned, and simulated using the MPC Toolbox. Selected process engineering benchmark examples are used to demonstrate typical design approaches and help deepen the understanding of MPC technologies. The book is aimed at engineers in industry interested in the development and application of MPC systems, as well as students of different technical disciplines seeking an introduction into this field.This book gives an overview of the basic ideas and advantages of the MPC concept. It shows how MPC systems can be designed, tuned, and simulated using the MPC Toolbox. Selected process engineering benchmark examples are used to demonstrate typical design approaches and help deepen the understanding of MPC technologies. The book is aimed at engineers in industry interested in the development and application of MPC systems, as well as students of different technical disciplines seeking an introduction into this field.Manufacturing Technology—Metal Cutting and Machine Tools, 4e (Volume II)McGraw-Hill EducationMc-Graw Hill Education is proud to announce the fourth edition of Manufacturing Technology, Volume 2 on Metal cutting and Machine Tools, by our well-known author P N Rao. With latest industrial case studies and expanded topical coverage, the textbook offers a deep knowledge of the ever-evolving subject. A dedicated section on chapter-wise GATE questions provide support to the competitive examinations' aspirants. This revised edition also maintains its principle of lucid presentation and easy to understand pedagogy. This makes the book a complete package on the subject which will greatly benefit students, teachers and practicing engineers. Salient Features: - Well organised description of equipment, from practical information to its process, supported with easy to understand illustrations, numerical calculation and discussion of the result. - Expanded topical coverage by adding One new chapter, on Micro-Manufacturing. Included new required topics like, Automation, Economics of Tooling, etc. - Latest Industrial Case Studies, like Turbine Blade Machining, Welding Fixture, etc.Untamed Urbanisms (Open Access)RoutledgeAn electronic version of this book is available Open Access at www.tandfebooks.com. It has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 3.0 license. One of the major challenges of urban development has been reconciling the way cities develop with the mounting evidence of resource depletion and the negative environmental impacts of predominantly urban-based modes of production and consumption. This book aims to re-politicise the relationship between urban development, sustainability and justice, and to explore the tensions emerging under real circumstances, as well as their potential for transformative change. For some, cities are the root of all that is unsustainable, while for others cities provide unique opportunities for sustainability-oriented innovations that address equity and ecological challenges. This book is rooted in the latter category, but recognises that if cities continue to evolve along current trajectories they will be where the large bulk of the most unsustainable and inequitable human activities are concentrated. By drawing on a range of case studies from both the global South and global North, this book is unique in its aim to develop an integrated social-ecological perspective on the challenge of sustainable urban development. Through the interdisciplinary and original research of a new generation of urban researchers across the global South and North, this book addresses old debates in new ways and raises new questions about sustainable urban development. .PLC Programming Using RSLogix 500 & Real World ApplicationsLearn Ladder Logic Concepts Step by Step with Real Industrial ApplicationsA. B. LawalHow this Book can Help You This book is aimed at students, electricians, technicians and engineers who want to learn PLC programming from scratch. It covers the fundamental knowledge they need to start writing their very first ladder logic program on RSLogix 500. It also covers some advanced knowledge of PLCs they need to become experts in programming PLCs. After reading this book, you should have a clear understanding of the structure of ladder logic programming and be able to apply it to real world industrial applications. The best way to master PLC programming is to use real world situations to practice. The real-world scenarios and industrial applications taught in this book will help you to learn better and faster many of the functions and features of the RSLogix 500 using programmable logic controllers. The methods presented in this book are those that are usually employed in the real world of industrial automation, and they may be all that you will ever need to learn. The information in this book is very valuable, not only to those who are just starting out, but also to anybody looking for a way to improve their skills in PLC programming. Merely having a PLC user manual or referring to its help contents is far from sufficient in becoming a skillful PLC programmer. Therefore this book is extremely useful for building PLC programming skills. First, it will give you a big head start if you have never programmed a PLC before. Then it will teach you more advanced techniques you need to learn, design and build anything from simple to complex programs on the RSLogix 500 platform. One of the questions I get quite often is, where can I get a free download of RSLogix 500 to practice? I provide in this book links to a free version of RSLogix 500 and a free version of RSLogix Emulate 500 for simulating real PLCs. So you don't even need to buy a PLC to learn, run and test your ladder logic programs. I do not only show you how to get these important Rockwell Automation software for free and without hassle, I also show with crystal-clear screenshots how to install, configure, navigate and use them to write ladder logic programs.Practical SCADA for IndustryElsevierA SCADA system gathers information, such as where a leak on a pipeline has occurred, transfers the information back to a central site, alerting the home station that the leak has occurred, carrying out necessary analysis and control, such as determining if the leak is critical, and displaying the information in a logical and organized fashion. SCADA systems can be relatively simple, such as one that monitors environmental conditions of a small office building, or incredibly complex, such as a system that monitors all the activity in a nuclear power plant or the activity of a municipal water system. An engineer's introduction to Supervisory Control and Data Acquisition (SCADA) systems and their application in monitoring and controlling equipment and industrial plant Essential reading for data acquisition and control professionals in plant engineering, manufacturing, telecommunications, water and waste control, energy, oil and gas refining and transportation Provides the knowledge to analyse, specify and debug SCADA systems, covering the fundamentals of hardware, software and the communications systems that connect SCADA operator stationsMapping Between X.400DIANE PublishingDescribes a set of mappings which will enable interworking between systems operating the CCITT X.400 (1988) Recommendations on Message Handling Systems / ISO IEC 10021 Message Oriented Text Interchange Systems (MOTIS) [CCITT/ISO88a], and systems using the RFC 822 mail protocol [Crocker82a] or protocols derived from RFC 822. Aims to maximize the services offered across the boundary, whilst not requiring unduly complex mappings. Specifies a mapping between two protocols.Twelve Years a SlavePrabhat Prakashan"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold

into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerptHandbook of Mobile LearningRoutledgeWinner of the AECT Division of Distance Learning (DDL) Distance Education Book Award! This handbook provides a comprehensive compendium of research in all aspects of mobile learning, one of the most significant ongoing global developments in the entire field of education. Rather than focus on specific technologies, expert authors discuss how best to utilize technology in the service of improving teaching and learning. For more than a decade, researchers and practitioners have been exploring this area of study as the growing popularity of smartphones, tablets, and other such devices, as well as the increasingly sophisticated applications for these devices, has allowed educators to accommodate and support an increasingly mobile society. This handbook provides the first authoritative account of the theory and research that underlies mobile learning, while also exemplifying models of current and future practice.Agronomic CropsVolume 2: Management PracticesSpringer NatureAgronomic crops have provided food, beverages, fodder, fuel, medicine and industrial raw materials since the beginning of human civilization. More recently, agronomic crops have been cultivated using scientific rather than traditional methods. However, in the current era of climate change, agronomic crops are suffering from different environmental stresses that result in substantial yield loss. To meet the food demands of the ever-increasing global population, new technologies and management practices are being adopted to boost yields and maintain productivity under both normal and adverse conditions. Further, in the context of sustainable agronomic crop production, scientists are adopting new approaches, such as varietal development, soil management, nutrient and water management, and pest management. Researchers have also made remarkable advances in developing stress tolerance in crops. However, the search for appropriate solutions for optimal production to meet the increasing food demand is still ongoing. Although there are several publications on the recent advances in these areas, there are few comprehensive resources available covering all of the recent topics. This timely book examines all aspects of production technologies, management practices and stress tolerance of agronomic crops.Using Advanced MPIModern Features of the Message-Passing InterfaceMIT PressThis book offers a practical guide to the advanced features of the MPI (Message-Passing Interface) standard library for writing programs for parallel computers. It covers new features added in MPI-3, the latest version of the MPI standard, and updates from MPI-2. Like its companion volume, Using MPI, the book takes an informal, example-driven, tutorial approach. The material in each chapter is organized according to the complexity of the programs used as examples, starting with the simplest example and moving to more complex ones.Using Advanced MPI covers major changes in MPI-3, including changes to remote memory access and one-sided communication that simplify semantics and enable better performance on modern hardware; new features such as nonblocking and neighborhood collectives for greater scalability on large systems; and minor updates to parallel I/O and dynamic processes. It also covers support for hybrid shared-memory/message-passing programming; MPI_Message, which aids in certain types of multithreaded programming; features that handle very large data; an interface that allows the programmer and the developer to access performance data; and a new binding of MPI to Fortran.Nano and Molecular Electronics HandbookCRC PressThere are fundamental and technological limits of conventional microfabrication and microelectronics. Scaling down conventional devices and attempts to develop novel topologies and architectures will soon be ineffective or unachievable at the device and system levels to ensure desired performance. Forward-looking experts continue to search for new paradigms to carry the field beyond the age of microelectronics, and molecular electronics is one of the most promising candidates. The Nano and Molecular Electronics Handbook surveys the current state of this exciting, emerging field and looks toward future developments and opportunities. Molecular and Nano Electronics Explained Explore the fundamentals of device physics, synthesis, and design of molecular processing platforms and molecular integrated circuits within three-dimensional topologies, organizations, and architectures as well as bottom-up fabrication utilizing quantum effects and unique phenomena. Technology in Progress Stay

current with the latest results and practical solutions realized for nanoscale and molecular electronics as well as biomolecular electronics and memories. Learn design concepts, device-level modeling, simulation methods, and fabrication technologies used for today's applications and beyond. Reports from the Front Lines of Research Expert innovators discuss the results of cutting-edge research and provide informed and insightful commentary on where this new paradigm will lead. The Nano and Molecular Electronics Handbook ranks among the most complete and authoritative guides to the past, present, and future of this revolutionary area of theory and technology.Circuits & PathwaysKendall HuntDesigned to provide students with exciting science experiences that extend their natural fascination with the world and help them learn the science skills and concepts needed later in life.The Organization of Attachment RelationshipsMaturation, Culture, and ContextCambridge University PressThis volume, first published in 2000, presents a theory on attachment that broadens its range to ages beyond infancy.Advances in Human Factors, Sustainable Urban Planning and InfrastructureProceedings of the AHFE 2017 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, July 17–21, 2017, The Westin Bonaventure Hotel, Los Angeles, California, USASpringerThis book deals with human factors research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2017 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 17-21, 2017, in Los Angeles, California, USA, this book, by showing different perspectives on sustainability and ergonomics, represents a useful source of information for designers in general, urban engineers, architects, infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers, and academics active in applied research.Anagram SolverBloomsbury PublishingAnagram Solver is the essential guide to cracking all types of quiz and crossword featuring anagrams. Containing over 200,000 words and phrases, Anagram Solver includes plural noun forms, palindromes, idioms, first names and all parts of speech. Anagrams are grouped by the number of letters they contain with the letters set out in alphabetical order so that once the letters of an anagram are arranged alphabetically, finding the solution is as easy as locating the word in a dictionary.The Green City and Social Injustice21 Tales from North America and EuropeRoutledgeThe Green City and Social Injustice examines the recent urban environmental trajectory of 21 cities in Europe and North America over a 20-year period. It analyses the circumstances under which greening interventions can create a new set of inequalities for socially vulnerable residents while also failing to eliminate other environmental risks and impacts. Based on fieldwork in ten countries and on the analysis of core planning, policy and activist documents and data, the book offers a critical view of the growing green planning orthodoxy in the Global North. It highlights the entanglements of this tenet with neoliberal municipal policies including budget cuts for community initiatives, long-term green spaces and housing for the most fragile residents; and the focus on large-scale urban redevelopment and high-end real estate investment. It also discusses hopeful experiences from cities where urban greening has long been accompanied by social equity policies or managed by community groups organizing around environmental justice goals and strategies. The book examines how displacement and gentrification in the context of greening are not only physical but also socio-cultural, creating new forms of social erasure and trauma for vulnerable residents. Its breadth and diversity allow students, scholars and researchers to debunk the often-depoliticized branding and selling of green cities and reinsert core equity and justice issues into green city planning—a much-needed perspective. Building from this critical view, the book also shows how cities that prioritize equity in green access, in secure housing and in bold social policies can achieve both environmental and social gains for all. ?>