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TCP/IP (Transmission Control Protocol/Internet Protocol) is the suite of communications protocols used to connect hosts on the Internet. TCP/IP uses several protocols, the two main ones being TCP and IP. TCP/IP is built into the UNIX operating system and is used by the Internet, making it the de facto standard for transmitting data over networks. The TCP/IP suite of protocols has become a dominant technology due to its widespread use and reliability, while Ethernet is fast becoming a de facto industrial networking standard. \* A practical hands-on book that covers troubleshooting and maintenance of TCP/IP networks \* Provides a solid understanding of the application of TCP/IP from an engineering perspective \* Complete coverage from networking fundamentals to Internet-enabled control systems The Science, Technology and Innovation Policy Review of Zambia has three fundamental goals. Its first goal is to offer Zambia an assessment of activities and institutions that make up its innovation ecosystem. The second goal is to draw attention to important socio-economic development questions for Zambia. Special attention has been placed on four such questions: gender, food, mining and digital transformation. The third goal is to provide recommendations for strengthening STI policy and propose measures that may improve national technological capacities and encourage innovation. This book addresses challenges that new technologies and the big data revolution pose to existing regulatory and legal frameworks. The volume discusses issues such as blockchain and its implications for property transactions and taxes, three (or four) dimensional title registration, land use and urban planning in the age of big data, and the future of property rights in light of these changes. The book brings together an interdisciplinary collection of chapters that revolve around the potential influence of disruptive technologies on existing legal norms and the future development of real estate markets. The book is divided into five parts. Part I presents a survey of the current available research on blockchain and real estate. Part II provides a background on property law for the volume, grounding it in fundamental theory. Part III discusses the changing landscapes of property rights while Part IV debates the potential effects of blockchain on land registration. Finally the book concludes with Part V, which is devoted to new technological applications relevant to real estate. Providing an interdisciplinary perspective on emerging technologies that have the potential to disrupt the real estate industry and the regulation of it, this book will appeal to a broad audience, consisting of scholars, policy-makers, practitioners, and students, interested in real estate, law, economics, blockchain, and technology policy. Digital transformation expert Mark Schrutt reveals how the world's top companies are using vast amounts of data to inform their decisions, disrupt industries, and get closer to their customers. Businesses that continue to rely only on intuition do so at their peril. What if you had the data you always wanted and could tell what was truly an emerging trend that would forever change your industry? Shifting the Balance analyzes the turn towards data-driven decision-making and describes how best-in-class organizations use data to shift their field of vision so it is forward-looking instead of reactive. Case studies with practical examples of how leading businesses address key challenges on the path to becoming data-driven include: How companies such as Hewlett-Packard and Land O'Lakes, whose industries are defined by resellers, are connecting directly with their customers to improve satisfaction and relevancy How data-driven decision-making shaped the largest one-sided deal in sports, paying the owners of a team that did not play a game for 40 years over \$800 million How companies such as Peloton and UberEats are using data-driven decision-making to disrupt and reimagine the fitness and restaurant industries What professional sports franchises such as the Oakland A's, Philadelphia Eagles, and Toronto Maple Leafs can teach us about using data in game-changing business decisions Shifting the Balance offers a roadmap that will enable organizations to make better business decisions that drive even better results, and provides a fascinating read along the way. SCADA (Supervisory Control and Data Acquisition) systems are at the heart of the modern industrial enterprise ranging from mining plants, water and electrical utility installations to oil and gas plants. In a market that is crowded with high-level monographs and reference guides, more practical information for professional engineers is required. This book covers the essentials of SCADA communication systems focussing on DNP3, the IEC 60870.5 standard and other new developments in this area. It commences with a brief review of the fundamentals of SCADA systems' hardware, software and the communications systems (such as RS-232, RS-485, Ethernet and TCP/IP) that connect the SCADA Modules together. A solid review is then done on the DNP3 and IEC 60870.5 protocols where its features, message structure, practical benefits and applications are discussed. This book provides you with the knowledge to design your next SCADA system more effectively with a focus on using the latest communications technologies available. \* Covers the essentials of SCADA communication systems and other new developments in this area \* Covers a wide range of specialist networking topics and other topics ideal for practicing engineers and technicians looking to further and develop their knowledge of the subject \* Extremely timely subject as the industry has made a strong movement towards standard protocols in modern SCADA communications systems InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. There are few industry sectors in the world today with more potential than renewable and hydrogen energy. Clean, green and renewable energy technologies are receiving immense emphasis from investors, environmentalists, governments and major corporations. Today's high prices for crude oil, coal and natural gas will increase the demand for renewables of all types. A wide variety of technologies are being researched, developed and implemented on a global basis, from Stirling engines to wind power, from advanced nuclear plants to geothermal and fuel cells. Our analysis also includes tar sands (oil sands), oil shale, fuel cells, clean coal, distributed power, energy storage, biofuels and much more. You'll find a complete overview, industry analysis and market research report in one superb, value-priced package. It contains thousands of contacts for business and industry leaders, industry associations, Internet sites and other resources. This book also includes statistical tables, an industry glossary and thorough indexes. The corporate profiles section of the book includes our proprietary, in-depth profiles of the 250 leading companies in all facets of the alternative, renewable and hydrogen energy business. Here you'll find complete profiles of the hot companies that are making news today, the largest, most successful corporations in the business. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled. This volume describes the main trends in industries and businesses supplying IT goods and services. It looks at the impact of IT diffusion and applications, as well as the growing importance of network effects as the use of IT expands. CIO magazine, launched in 1987, provides business technology leaders with award-winning analysis and insight on information technology trends and a keen understanding of IT's role in achieving business goals. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Based on original research, this book focuses on the importance of the producer-user connection, the changing balance between national and foreign firms and the need for learning in industry and government. This carefully-researched book covers exciting trends in consulting in such fields as marketing, information technology, management, logistics, supply chain, manufacturing, health care and more. Includes complete details on the prestigious management consulting sector, plus our analysis of the information technology consulting business. This reference tool includes thorough market analysis as well as our highly respected trends analysis. You'll find a complete overview, industry analysis and market research report in one superb, value-priced package. It contains thousands of contacts for business and industry leaders, industry associations, Internet sites and other resources. This book also includes statistical tables, an industry glossary and thorough indexes. The corporate profiles section of the book includes our proprietary, in-depth profiles of the 275 leading companies in all facets of consulting. Here you'll find complete profiles of the hot companies that are making news today, the largest, most successful corporations in the business. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled. There are many data communications titles covering design, installation, etc, but almost none that specifically focus on industrial networks, which are an essential part of the day-to-day work of industrial control systems engineers, and the main focus of an increasingly large group of network specialists. The focus of this book makes it uniquely relevant to control engineers and network designers working in this area. The industrial application of networking is explored in terms of design, installation and troubleshooting, building the skills required to identify, prevent and fix common industrial data communications problems - both at the design stage and in the maintenance phase. The focus of this book is 'outside the box'. The emphasis goes beyond typical communications issues and theory to provide the necessary toolkit of knowledge to solve industrial communications problems covering RS-232, RS-485, Modbus, Fieldbus, DeviceNet, Ethernet and TCP/IP. The idea of the book is that in reading it you should be able to walk onto your plant, or facility, and troubleshoot and fix communications problems as quickly as possible. This book is the only title that addresses the nuts-and-bolts issues involved in design, installation and troubleshooting that are the day-to-day concern of engineers and network specialists working in industry. \* Provides a unique focus on the industrial application of data networks \* Emphasis goes beyond typical communications issues and theory to provide the necessary toolkit of knowledge to solve industrial communications problems \* Provides the tools to allow engineers in various plants or facilities to troubleshoot and fix communications problems as quickly as possible Annotation Chapters in this book focus on the people, economy, environment, states and markets, world view, and global links for 148 countries. As a whole, these chapters present an expanded view of the world economy. Introductions highlight recent research on major development issues worldwide. The technology and structure of telecommunications networks has changed dramatically over the past few years. These developments have changed the equipment you purchase, the services you use, the providers you can choose, and the methods available for transporting data. Practical Telecommunications and Wireless Communications for Engineers and Technicians will be of particular benefit to those who want to take full advantage of the latest and most effective telecommunications technology and services. This book provides a grounding in the fundamentals of modern telecommunications systems in use in industrial, engineering and business settings. From networking for control systems to the use of Wireless LANs for enhanced on-site communications systems. This is a cutting-edge book on the fundamentals of telecommunications for anyone looking for a complete understanding of the essentials of the terms, jargon and technologies used. It has been designed for those who require a basic grounding in telecommunications for industrial, engineering and business

applications. · Gain an understanding of the fundamentals of modern industrial, engineering and business telecommunications systems, from networking for industrial control to the use of Wireless LANs for enhanced on-site communications systems · Learn to take full advantage of the latest and most effective telecommunications technology and services · Provides a thorough grounding in the terms, jargon and technologies involved in data communications The globalized economy, dominated by the diffusion of innovation and social, political, and economic changes, allows people and knowledge to flow without knowing what lies ahead. As new economies emerge and technologies impose significant changes, the internationalization of markets and industries has made defining its delimitation more difficult. Competitive Drivers for Improving Future Business Performance is a conceptualized reference source that discusses the use of digital skills to manage change in volatile contexts and provides fundamental understanding of competitive advantage to guarantee superior performances. To assure this level of performance, a set of choices (drivers) must be created ensuring operational efficiency, innovative products, customer knowledge-base, and focused branding. Featuring research on topics such as consumer experience, strategic leadership, and flexible technologies, this book is ideally designed for managers, executives, entrepreneurs, academicians, consulting professionals, researchers, industry professionals, and students seeking coverage on how to improve competitive performance in an era of uncertainty. This reference book is a complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development. We have included companies that are making significant investments in research and development via as many disciplines as possible, whether that research is being funded by internal investment, by fees received from clients or by fees collected from government agencies. In this carefully-researched volume, you'll get all of the data you need on the American Engineering & Research Industry, including: engineering market analysis, complete industry basics, trends, research trends, patents, intellectual property, funding, research and development data, growth companies, investments, emerging technologies, CAD, CAE, CAM, and more. The book also contains major statistical tables covering everything from total U.S. R&D expenditures to the total number of scientists working in various disciplines, to amount of U.S. government grants for research. In addition, you'll get expertly written profiles of nearly 400 top Engineering and Research firms - the largest, most successful corporations in all facets of Engineering and Research, all cross-indexed by location, size and type of business. These corporate profiles include contact names, addresses, Internet addresses, fax numbers, toll-free numbers, plus growth and hiring plans, finances, research, marketing, technology, acquisitions and much more. This book will put the entire Engineering and Research industry in your hands. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled. \* Ideal for those with some background in communications but without previous knowledge of fiber optics \* Provides a comprehensive treatment of the fundamentals of fiber optic systems and their individual components \* Places emphasis on practical techniques of component installation and system design Fiber Optics is a technology that uses glass (or plastic) threads (fibers) to transmit data. A fiber optic cable consists of a bundle of glass threads, each of which is capable of transmitting messages modulated onto light waves. Fiber optics have several advantages over traditional metal communications lines. While there are plenty of theoretical texts on fiber optics, high-level engineering texts and installation guides, there are few comprehensive applied texts for practicing engineers. This book covers design issues, installation and troubleshooting in the right depth for engineers working in industry. Readers will use this knowledge to develop the required techniques for design, installation and maintenance of their own fiber optic systems. This reference book is a complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development. We have included companies that are making significant investments in research and development via as many disciplines as possible, whether that research is being funded by internal investment, by fees received from clients or by fees collected from government agencies. In this carefully-researched volume, you'll get all of the data you need on the American Engineering & Research Industry, including: engineering market analysis, complete industry basics, trends, research trends, patents, intellectual property, funding, research and development data, growth companies, investments, emerging technologies, CAD, CAE, CAM, and more. The book also contains major statistical tables covering everything from total U.S. R&D expenditures to the total number of scientists working in various disciplines, to amount of U.S. government grants for research. In addition, you'll get expertly written profiles of nearly 400 top Engineering and Research firms - the largest, most successful corporations in all facets of Engineering and Research, all cross-indexed by location, size and type of business. These corporate profiles include contact names, addresses, Internet addresses, fax numbers, toll-free numbers, plus growth and hiring plans, finances, research, marketing, technology, acquisitions and much more. This book will put the entire Engineering and Research industry in your hands. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled. CIO magazine, launched in 1987, provides business technology leaders with award-winning analysis and insight on information technology trends and a keen understanding of IT's role in achieving business goals. The objective of this book is to outline the best practice in designing, installing, commissioning and troubleshooting industrial data communications systems. In any given plant, factory or installation there are a myriad of different industrial communications standards used and the key to successful implementation is the degree to which the entire system integrates and works together. With so many different standards on the market today, the debate is not about what is the best - be it Foundation Fieldbus, Profibus, DeviceNet or Industrial Ethernet but rather about selecting the most appropriate technologies and standards for a given application and then ensuring that best practice is followed in designing, installing and commissioning the data communications links to ensure they run fault-free. The industrial data communications systems in your plant underpin your entire operation. It is critical that you apply best practice in designing, installing and fixing any problems that may occur. This book distills all the tips and tricks with the benefit of many years of experience and gives the best proven practices to follow. The main steps in using today's communications technologies involve selecting the correct technology and standards for your plant based on your requirements; doing the design of the overall system; installing the cabling and then commissioning the system. Fiber Optic cabling is generally accepted as the best approach for physical communications but there are obviously areas where you will be forced to use copper wiring and, indeed, wireless communications. This book outlines the critical rules followed in installing the data communications physical transport media and then ensuring that the installation will be trouble-free for years to come. The important point to make is that with today's wide range of protocols available, you only need to know how to select, install and maintain them in the most cost-effective manner for your plant or factory - knowledge of the minute details of the protocols is not necessary. An engineer's guide to communications systems using fiber optic cabling, copper cabling and wireless technology Covers: selection of technology and standards - system design - installation of equipment and cabling - commissioning and maintenance Crammed with practical techniques and know how - written by engineers for engineers This book provides profound insights into industrial control system resilience, exploring fundamental and advanced topics and including practical examples and scenarios to support the theoretical approaches. It examines issues related to the safe operation of control systems, risk analysis and assessment, use of attack graphs to evaluate the resiliency of control systems, preventive maintenance, and malware detection and analysis. The book also discusses sensor networks and Internet of Things devices. Moreover, it covers timely responses to malicious attacks and hazardous situations, helping readers select the best approaches to handle such unwanted situations. The book is essential reading for engineers, researchers, and specialists addressing security and safety issues related to the implementation of modern industrial control systems. It is also a valuable resource for students interested in this area. One of the most important issues businesses face is how to adapt to changing operational and administrative processes. Globalization and high competition highlight the importance of technological innovation and its contribution to the organizational performance of businesses. Technological Developments in Industry 4.0 for Business Applications is a collection of innovative research on the methods and applications of developing new services related to industrial processes in order to improve organizational well-being. It also looks at the technological, organizational, and social aspects of Industry 4.0. Highlighting a range of topics including enterprise integration, logistic models, and supply chain, this book is ideally designed for computer engineers, managers, business and IT professionals, business researchers, and post-graduate students seeking current research on the evolution and development of business applications in the modern industry era. I, WOZ offers readers a unique glimpse into the offbeat and brilliant but ethical mind that conceived the Macintosh. After 25 years avoiding the public eye, Steve Wozniak reveals the full story of the Apple computer, from its conception to his views on the iconic cult status it has achieved today. In June 1975 Steve's curiosity and determination inspired him to build a computer, the first Apple. Six months later, he sold the machine, and for the self-professed 'engineer's engineer', success was imminent. But this story is full of life lessons, critical decisions, huge triumphs and big mistakes. Steve speaks also of his childhood, phone hacking pranks, working at Hewlett-Packard, the life-changing plane crash and teaching. This is a book for engineers that covers the hardware and software aspects of high-reliability safety systems, safety instrumentation and shutdown systems as well as risk assessment techniques and the wider spectrum of industrial safety. Rather than another book on the discipline of safety engineering, this is a thoroughly practical guide to the procedures and technology of safety in control and plant engineering. This highly practical book focuses on efficiently implementing and assessing hazard studies, designing and applying international safety practices and techniques, and ensuring high reliability in the safety and emergency shutdown of systems in your plant. This book will provide the reader with the most up-to-date standards for and information on each stage of the safety life cycle from the initial evaluation of hazards through to the detailed engineering and maintenance of safety instrumented systems. It will help them develop the ability to plan hazard and risk assessment studies, then design and implement and operate the safety systems and maintain and evaluate them to ensure high reliability. Finally it will give the reader the knowledge to help prevent the massive devastation and destruction that can be caused by today's highly technical computer controlled industrial environments. \* Helps readers develop the ability to plan hazard and risk assessment studies, then design, implement and operate the safety systems and maintain and evaluate them to ensure high reliability \* Gives the reader the knowledge to help prevent the massive devastation that can be caused by today's highly technical computer controlled industrial environments \* Rather than another book on the discipline of safety engineering, this is a thoroughly practical guide to the procedures and technology of safety in control and plant engineering A 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 stations Market research guide to the business side of renewable, alternative & hydrogen energy – a tool for strategic planning, competitive intelligence, employment searches or financial research. Contains trends, statistical tables, and an industry glossary. Includes one page profiles of renewable, alternative & hydrogen energy industry firms, companies and organizations - includes addresses, phone numbers, executive names. Overview of Data Communications; Basic Data Communication Principles; Physical Serial Communication Standards; Error Detection; Cabling Basics; Electrical Noise and Interference; Modems and Multiplexers; Introduction to Protocols; Open Systems Interconnection Model; Industrial Protocols; HART Protocol; Open Industrial Fieldbus and DeviceNet Systems; Local Area Networks; Appendix A: Numbering Systems; Appendix B: Cyclic Redundancy Check (CRC) Program Listing; Appendix C: Serial Link Design; Glossary. InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. This reference book is a complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development. We have included companies that are making significant investments in research and development via as many disciplines as possible, whether that research is being funded by internal investment, by fees received from clients or by fees collected from government agencies. In this carefully-researched volume, you'll get all of the data you need on the American Engineering & Research Industry, including: engineering market analysis, complete industry basics, trends, research trends, patents, intellectual property, funding, research and development data, growth companies, investments, emerging technologies, CAD, CAE, CAM, and more. The book also contains major statistical tables covering everything from total U.S. R&D expenditures to the total number of scientists working in various disciplines, to amount of U.S. government grants for research. In addition, you'll get expertly written profiles of nearly 400 top Engineering and Research firms - the largest, most successful corporations in all facets of Engineering and Research, all cross-indexed by location, size and type of business. These corporate profiles include contact names, addresses, Internet addresses, fax numbers, toll-free numbers, plus growth and hiring plans, finances, research, marketing, technology, acquisitions and much more. This book will put the entire Engineering and Research industry in your hands. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

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