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KENZIE BRADY

Practical SCADA for Industry Bookboon

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.

Biometric-Based Physical and Cybersecurity Systems Newnes

Asia is home to 60 per cent of the world's population, including the world's two most populous nations, China and India. The region's economic gains and rising middle class are accelerating demand for more consumer goods and a better quality of life. For further economic growth to be realised, the region will need a massive supply of additional energy, three- to five-fold 2020's amount by 2050. These changes create new business and investment opportunities for domestic companies and overseas participants. Asia's energy market, already the world's biggest, will soon be the most advanced. There will be mass adoption of digital technologies, like artificial intelligence, to make the distribution of solar, wind and other clean resources, smarter and more efficient. Led by China, billions of dollars in capital investment will drive the region's shift to green, sustainable energy, replacing polluting and expensive fossil fuels, which will help to rein in climate change. In Asia's Energy Revolution, leading energy markets analyst and practitioner Joseph Jacobelli explains why Asia is the world's most important territory for energy transition, how developments in the region will drive change in the rest of the world as well as how it will all be financed. The book discussion includes: Analysis of past events and forward-looking analysis of the industry in the region encompassing commercial, economic, and financial aspects Appraisal of new energy technologies, such as electric vehicles, and digital solutions, such as blockchain for energy Review of the capital flows and sustainable financing channels needed to fund energy infrastructure and tech growth

CIO Springer

Plant Hazard Analysis and Safety Instrumentation Systems is the first book to combine coverage of these two integral aspects of running a chemical processing plant. It helps engineers from various disciplines learn how various analysis techniques, international standards, and instrumentation and controls provide layers of protection for basic process control systems, and how, as a result, overall system reliability, availability, dependability, and maintainability can be increased. This step-by-step guide takes readers through the development of safety instrumented systems, also including discussions on cost impact, basics of statistics, and reliability. Swapan Basu brings more than 35 years of industrial experience to this book, using practical examples to demonstrate concepts. Basu links between the SIS requirements and process hazard analysis in order to complete SIS lifecycle implementation and covers safety analysis and realization in control systems, with up-to-date descriptions of modern concepts, such as SIL, SIS, and Fault Tolerance to name a few. In addition, the book addresses security issues that are particularly important for the programmable systems in modern plants, and discusses, at length, hazardous atmospheres and their impact on electrical enclosures and the use of IS circuits. Helps the reader identify which hazard analysis method is the most appropriate (covers ALARP, HAZOP, FMEA, LOPA) Provides tactics on how to implement standards, such as IEC 61508/61511 and ANSI/ISA 84 Presents information on how to conduct safety analysis and realization in control systems and safety instrumentation

Practical Fiber Optics Elsevier

Introduction to Data Acquisition & Control; Analog and Digital Signals; Signal Conditioning; The Personal Computer for Real Time Work; Plug-in Data Acquisition Boards; Serial Data Communications; Distributed & Standalone Loggers/Controllers; IEEE 488 Standard; Ethernet & LAN Systems; The Universal Serial Bus (USB); Specific Techniques; The PCMCIA Card; Appendix A: Glossary; Appendix B: IBM PC Bus Specifications; Appendix C: Review of the Intel 8255 PPI Chip; Appendix D: Review of the Intel 8254 Timer-Counter Chip; Appendix E: Thermocouple Tables; Appendix F: Numbers Systems; Appendix G: GPIB (IEEE-488) Mnemonics & their Definition; Appendix H: Practical Laboratories & Demonstrations; Appendix I: Command Structure & Programming.

Control Systems Elsevier

This book will allow you to gain practical skills and know-how in grounding, bonding, lightning & surge protection. Few topics generate as much controversy and argument as that of grounding and the associated topics of surge protection, shielding and lightning protection of electrical and electronic systems. Poor grounding practice can be the cause of continual and intermittent difficult-to-diagnose problems in a facility. This book looks at these issues from a fresh yet practical perspective and enables you to reduce expensive downtime on your plant and equipment to a minimum by correct application of these principles. Learning outcomes: * Apply the various methods of grounding electrical systems * Detail the applicable national Standards * Describe the purposes of grounding and bonding * List the types of systems that cannot be grounded * Describe what systems can be operated ungrounded * Correctly shield sensitive communications cables from noise and interference * Apply practical knowledge of surge and transient protection * Troubleshoot and fix grounding and surge problems * Design, install and test an effective grounding system for electronic

equipment * Understand lightning and how to minimize its impact on your facility * Protect sensitive equipment from lightning · An engineer's guide to earthing, shielding, lightning and surge protection designed to deliver reliable equipment and communications systems that comply with international and national codes · Discover how to reduce plant downtime and intermittent faults by implementing best-practice grounding/earthing techniques · Learn the principles of cable shielding in communication networks

Building the Agile Business through Digital Transformation CRC Press

Variable frequency drive - VFD - frequency drives - reductiemotor.

Practical Process Control for Engineers and Technicians Springer

War at the Speed of Light describes the revolutionary and ever-increasing role of directed-energy weapons (such as laser, microwave, electromagnetic pulse, and cyberspace weapons) in warfare. Louis A. Del Monte delineates the threat that such weapons pose to disrupting the doctrine of Mutually Assured Destruction, which has kept the major powers of the world from engaging in nuclear warfare. Potential U.S. adversaries, such as China and Russia, are developing hypersonic missiles and using swarming tactics as a means to defeat the U.S. military. In response, the U.S. Department of Defense established the 2018 National Security Strategy, emphasizing directed-energy weapons, which project devastation at the speed of light and are capable of destroying hypersonic missiles and enemy drones and missile swarms. Del Monte analyzes how modern warfare is changing in three fundamental ways: the pace of war is quickening, the rate at which weapons project devastation is reaching the speed of light, and cyberspace is now officially a battlefield. In this acceleration of combat called "hyperwar," Del Monte shows how disturbingly close the world is to losing any deterrence to nuclear warfare.

Formulas and Conversions Elsevier

A comprehensive source book for anybody interested in the potential of remote sensing and GIS technology for the Eastern Europe countries in transition, and less developed countries in general. Leading experts from Europe, Canada and the USA cover a wide variety of applications, from the provision of satellite data to land, water and atmosphere planning issues. The individual contributions present a nice balance between theory and proved application methods. The book is suitable for a wide spectrum of readers, such as graduate students of the environmental and geo sciences, teachers and professors, specialists at various administrative levels, political decision makers and policy makers, and technical aid GOs and NGOs.

Computer and Network Security Essentials Elsevier

This book covers various modern theoretical, technical, practical and technological aspects of computerized numerical control and control systems of deterministic and stochastic dynamical processes.

Practical Grounding, Bonding, Shielding and Surge Protection Elsevier

The objective of this book is to introduce the basic concepts of big data computing and then to describe the total solution of big data problems using HPCC, an open-source computing platform. The book comprises 15 chapters broken into three parts. The first part, Big Data Technologies, includes introductions to big data concepts and techniques; big data analytics; and visualization and learning techniques. The second part, LexisNexis Risk Solution to Big Data, focuses on specific technologies and techniques developed at LexisNexis to solve critical problems that use big data analytics. It covers the open source High Performance Computing Cluster (HPCC Systems®) platform and its architecture, as well as parallel data languages ECL and KEL, developed to effectively solve big data problems. The third part, Big Data Applications, describes various data intensive applications solved on HPCC Systems. It includes applications such as cyber security, social network analytics including fraud, Ebola spread modeling using big data analytics, unsupervised learning, and image classification. The book is intended for a wide variety of people including researchers, scientists, programmers, engineers, designers, developers, educators, and students. This book can also be beneficial for business managers, entrepreneurs, and investors.

Personal Computers and Digital Signal Processing Elsevier

This book provides formal and informal definitions and taxonomies for self-aware computing systems, and explains how self-aware computing relates to many existing subfields of computer science, especially software engineering. It describes architectures and algorithms for self-aware systems as well as the benefits and pitfalls of self-awareness, and reviews much of the latest relevant research across a wide array of disciplines, including open research challenges. The chapters of this book are organized into five parts: Introduction, System Architectures, Methods and Algorithms, Applications and Case Studies, and Outlook. Part I offers an introduction that defines self-aware computing systems from multiple perspectives, and establishes a formal definition, a taxonomy and a set of reference scenarios that help to unify the remaining chapters. Next, Part II explores architectures for self-aware computing systems, such as generic concepts and notations that allow a wide range of self-aware system architectures to be described and compared with both isolated and interacting systems. It also reviews the current state of reference architectures, architectural frameworks, and languages for self-aware systems. Part III focuses on methods and algorithms for self-aware computing systems by addressing issues pertaining to system design, like modeling, synthesis and verification. It also examines topics such as adaptation, benchmarks and metrics. Part IV then presents applications and case studies in various domains including cloud computing, data centers, cyber-physical systems, and the degree to which self-aware computing approaches have been adopted within those domains. Lastly, Part V surveys open challenges and future research directions for self-

aware computing systems. It can be used as a handbook for professionals and researchers working in areas related to self-aware computing, and can also serve as an advanced textbook for lecturers and postgraduate students studying subjects like advanced software engineering, autonomic computing, self-adaptive systems, and data-center resource management. Each chapter is largely self-contained, and offers plenty of references for anyone wishing to pursue the topic more deeply.

[Practical Hazops, Trips and Alarms](#) Elsevier

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

[Asia's Energy Revolution](#) Practical Variable Speed Drives and Power Electronics

In the past automation of the power network was a very specialized area but recently due to deregulation and privatization the area has become of a great importance because companies require more information and communication to minimize costs, reduce workforce and minimize errors in order to make a profit. * Covers engineering requirements and business implications of this cutting-edge and ever-evolving field * Provides a unique insight into a fast-emerging and growing market that has become and will continue to evolve into one of leading communication technologies * Written in a practical manner to help readers handle the transformation from the old analog environment to the modern digital communications-based one

[Remote Sensing for Environmental Data in Albania](#) Bookboon

This book introduces readers to the tools needed to protect IT resources and communicate with security specialists when there is a security problem. The book covers a wide range of security topics including Cryptographic Technologies, Network Security, Security Management, Information Assurance, Security Applications, Computer Security, Hardware Security, and Biometrics and Forensics. It introduces the concepts, techniques, methods, approaches, and trends needed by security specialists to improve their security skills and capabilities. Further, it provides a glimpse into future directions where security techniques, policies, applications, and theories are headed. The book represents a collection of carefully selected and reviewed chapters written by diverse security experts in the listed fields and edited by prominent security researchers. Complementary slides are available for download on the book's website at Springer.com.

[Directed-Energy Weapons and the Future of Twenty-First-Century Warfare](#) Academic Press

The Systems Development Handbook provides practical guidance for the range of new applications problems, featuring contributions from many industry experts. The book provides step-by-step charts, tables, schematics, and a comprehensive index for easy access to topics and areas of related interest. Topics include cooperative processing; the transition to object-oriented development; rapid application development tools and graphical user interfaces (GUIs); database architecture in distributed computing; development tools and techniques, including design, measurement, and production; and more.

[Big Data Technologies and Applications](#) Elsevier

SCADA systems are at the heart of the modern industrial enterprise. In a market that is crowded with high-level monographs and reference guides,

more practical information for professional engineers is required. This book gives them the knowledge to design their next SCADA system more effectively.

[CIO Bookboon](#)

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.

[Practical Industrial Data Networks](#) Walter de Gruyter GmbH & Co KG

This book is aimed at engineers and technicians who need to have a clear, practical understanding of the essentials of process control, loop tuning and how to optimize the operation of their particular plant or process. The reader would typically be involved in the design, implementation and upgrading of industrial control systems. Mathematical theory has been kept to a minimum with the emphasis throughout on practical applications and useful information. This book will enable the reader to: * Specify and design the loop requirements for a plant using PID control * Identify and apply the essential building blocks in automatic control * Apply the procedures for open and closed loop tuning * Tune control loops with significant dead-times * Demonstrate a clear understanding of analog process control and how to tune analog loops * Explain concepts used by major manufacturers who use the most up-to-date technology in the process control field · A practical focus on the optimization of process and plant · Readers develop professional competencies, not just theoretical knowledge · Reduce dead-time with loop tuning techniques

John Wiley & Sons

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

[CIO U of Nebraska Press](#)

This book provides the reader with an understanding of the hazards involved in using electrical equipment in Potentially Explosive Atmospheres. It is based on the newly adopted international IEC79 Series of Standards that are now harmonizing and replacing older national Standards. Explosion-proof installations can be expensive to design, install and operate. The strategies and techniques described in this book can significantly reduce costs whilst maintaining plant safety. The book explains the associated terminology and its correct use - from Area Classification through to the selection of explosion-protected electrical apparatus, describing how protection is achieved and maintained in line with these international requirements. The IEC standards require that engineering staff and their management are trained effectively and safely in Hazardous Areas, and this book is designed to help fulfill that need. A basic understanding of instrumentation and electrical theory would be of benefit to the reader, but no previous knowledge of hazardous area installation is required. * An engineer's guide to the hazards and best practice for using electrical equipment in Potentially Explosive Atmospheres. * Fully in line with the newly adopted international standards, the IEC79 series. * Clear explanations of terminology and background information make this the most accessible book on this subject.