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Techno-Societal 2020 - Prashant M. Pawar 2021-06-19
This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.
Digital Enterprise Technology - Pedro Filipe Cunha 2007-09-18
The first Digital Enterprise Technology (DET) International Conference was held in Durham, UK in 2002 and the second DET Conference in

Seattle, USA in 2004. Sponsored by CIRP (College International pour la Recherche en Productique), the third DET Conference took place in Setúbal, Portugal in 2006. Digital Enterprise Technology: Perspectives and Future Challenges is an edited volume based on this conference. Topics include: distributed and collaborative design, process modeling and process planning, advanced factory equipment and layout design and modeling, physical-to-digital environment integrators, enterprise integration technologies, and entrepreneurship in DET.
SharePoint 2010: Best Practices for Upgrading and Migrating - Joel Oleson 2011-12-15
SharePoint 2010 is nothing like its predecessors -- and this book is unlike any other book on upgrading. Sharepoint 2010: Best Practices to Upgrade and Migrate consists of a series of recent blog posts and articles from people who have been in the SharePoint admin trenches a long, long time. Together, these offerings provide an expert body of knowledge on how to launch SharePoint 2010 successfully, without pulling all-nighters or causing major disruptions. Author Joel Oleson was involved in the first Microsoft global deployment of SharePoint, and he began blogging on the topic five years ago as a way to help IT customers. Now he and other experts in the SharePoint community share their unique insights into the business of upgrading and migrating to

SharePoint 2010. This book is perfect for browsing, so feel free to jump around to the topics that concern you most. Prepare yourself for SharePoint and Office 2010 by archiving, cleaning up, and considering the move to 64-bit Learn real-world upgrade methods, such as using PowerShell, database attach, a gradual upgrade, or an in-place upgrade Consider upgrade development and customization options Determine what not to migrate to SharePoint 2010 Discover what's new in SharePoint capacity planning and how you can take advantage of it Learn how to upgrade from SharePoint 2003 Get an extensive list of upgrade and migration tools

PLC And SCADA - Jitender Singh 2015

Advances in Digital Forensics II - Martin S. Olivier 2010-04-02 Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Practically every crime now involves some digital evidence; digital forensics provides the techniques and tools to articulate this evidence. This book describes original research results and innovative applications in the emerging discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations.

Advances in Logic Based Intelligent Systems - Kazumi Nakamatsu 2005
LAPTEC2005 promoted the discussion and interaction between researchers and practitioners focused on both theoretical and practical disciplines concerning logics applied to technology, with diverse backgrounds including all kinds of intelligent systems having classical or non-classical logics as underlying common matters. It was the first time for LAPTEC to be held in a different country than Brazil since its birth in 2000, and this has made the congress more international. This book is dedicated to Emeritus Professor Atsuyuki Suzuki in commemoration of his honourable retirement from Shizuoka University, March 2005. Prof. Suzuki is learned in application of para consistent logic and has contributed many papers as a member of the program committee to

LAPTEC since the beginning.
Designing SCADA Application Software - Stuart G McCrady 2013-07-30
Automation systems, often referred to as SCADA systems, involve programming at several levels; these systems include computer type field controllers that monitor and control plant equipment such as conveyor systems, pumps, and user workstations that allow the user to monitor and control the equipment through color graphic displays. All of the components of these systems are integrated through a network, such as Ethernet for fast communications. This book provides a practical guide to developing the application software for all aspects of the automation system, from the field controllers to the user interface workstations. The focus of the book is to not only provide practical methods for designing and developing the software, but also to develop a complete set of software documentation. Providing tested examples and proceducres, this book will be indespensible to all engineers managing automation systems. Clear instructions with real-world examples Guidance on how to design and develop well-structured application programs Identification of software documentation requirements and organization of point names with logical naming system Guidance on best practice of standardized programming methods for SCADA systems
PLC Controls with Structured Text (ST) - Tom Mejer Antonsen 2019-03-14
This book gives an introduction to Structured Text (ST), used in Programmable Logic Control (PLC). The book can be used for all types of PLC brands including Siemens Structured Control Language (SCL) and Programmable Automation Controllers (PAC). Contents: - Background, advantage and challenge when ST programming - Syntax and fundamental ST programming - Widespread guide to reasonable naming of variables - CTU, TOF, TON, CASE, STRUCT, ENUM, ARRAY, STRING - Guide to split-up into program modules and functions - More than 90 PLC code examples in black/white - FIFO, RND, 3D ARRAY and digital filter - Examples: From LADDER to ST programming - Guide to solve programming exercises Many clarifying explanations to the PLC code and focus on the fact that the reader should learn how to write a stable,

robust, readable, structured and clear code are also included in the book. Furthermore, the focus is that the reader will be able to write a PLC code, which does not require a specific PLC type and PLC code, which can be reused. The basis of the book is a material which is currently compiled with feedback from lecturers and students attending the AP Education in Automation Engineering at the local Dania Academy, "Erhvervsakademi Dania", Randers, Denmark. The material is thus currently updated so that it answers all the questions which the students typically ask through-out the period of studying. The author is Bachelor of Science in Electrical Engineering (B.Sc.E.E.) and has 25 years of experience within specification, development, programming and supplying complex control solutions and supervision systems. The author is Assistant Professor and teaching PLC control systems at higher educations. LinkedIn: https://www.linkedin.com/in/tommejerantonsen/

Instrument Engineers' Handbook, Third Edition, Volume Three - Bela G. Liptak 2002-06-26
Instrument Engineers' Handbook, Third Edition: Volume Three: Process Software and Digital Networks provides an in-depth, state-of-the-art review of existing and evolving digital communications and control systems. While the book highlights the transportation of digital information by buses and networks, the total coverage doesn't stop there. It describes a variety of process-control software packages suited for plant optimization, maintenance, and safety related applications. In addition, topics include plant design and modernization, safety and operations related logic systems, and the design of integrated workstations and control centers. The book concludes with an appendix providing practical information such as bidders lists and addresses, steam tables, materials selection for corrosive services, and much more. If you buy the three-volume set of the Instrument Engineers Handbook, you will have everything a process control engineer or instrumentation technician needs. If you buy this volume, you will have at your fingertips all the software and digital network related information that is needed by I&C engineers. It will be the resource you reach for over and over again.
Pressure Vessel Design - J Spence 2012-09-10

This book derives from a 3 day intensive course on Pressure Vessel Design given regularly in the UK and around the world since 1986. It is written by experts in their field and although the main thrust of the Course has been directed to BS5500, the treatment of the material is of a general nature thus providing insight into other national standards
Physiotherapy for Children - Teresa Pountney 2007-09-13
A comprehensive clinical manual and reference on paediatric physiotherapy, which examines all of the theoretical and clinical aspects of physiotherapy provision for children and young adults including: Neurology; Cardio-respiratory; Musculoskeletal; Oncology and palliative care; Mental health; Acquired brain injury. Dr Teresa Pountney heads up a team of experienced practitioners who cover a range of conditions from those experienced by the typically developing child to those with disabilities and diseases. The changing needs of children with long term conditions is described, as well as methods of service delivery to enable children and families to benefit as much as possible from their treatment. The different settings in which physiotherapy is provided for children, school, home, and hospital is described in addition to strategies and legislation relating to this. Strong emphasis on evidence-based practice Case studies illustrate practical applications of concepts and techniques and offer clinical reasoning behind decision-making Outcome measures discussed in depth - over 14 different assessments are reviewed Up to date - most recent research and newest legislation taken into account
Piping and Pipeline Engineering - George A. Antaki 2003-05-28
Taking a big-picture approach, Piping and Pipeline Engineering: Design, Construction, Maintenance, Integrity, and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project, whether it is routine maintenance or a new multi-million dollar project. The author explores the qualitative details, calculations, and t
Symbol Sourcebook - Henry Dreyfuss 1991-01-16
"A ready reference aid and an inspiration to designers . All in all the best book now available on symbols." --Library Journal This unparalleled reference represents a major achievement in the field of graphic design. Famed industrial designer Henry Dreyfuss recognized the importance of

symbols in communicating more quickly and effectively; for many years he and his staff collected and codified graphic symbols as they are used in all walks of life throughout the world. The result is this "dictionary" of universally used graphic symbols. Henry Dreyfuss designed this sourcebook to be as practical and easy to use as possible by arranging the symbol information within ingeniously devised sections: Basic Symbols represents a concise and highly selective grouping of symbols common to all disciplines (on-off, up-down, etc.). Disciplines provides symbols used in accommodations and travel, agriculture, architecture, business, communications, engineering, photography, sports, safety, traffic controls, and many other areas. Color lists the meanings of each of the colors in various worldwide applications and cultures. Graphic Form displays symbols from all disciplines grouped according to form (squares, circles, arrows, human figures, etc.) creating a unique way to identify a symbol out of context, as well as giving designers a frame of reference for developing new symbols. To make the sourcebook truly universal, the Table of Contents contains translations of each of the section titles and discipline areas into 17 languages in addition to English.

Graphics User Guide - 1986

C++/ Cli In Action - Nishant Sivakumar 2007-05
C++/CLI in Action is a practical guide that will help you breathe new life into your legacy C++ programs. The book begins with a concise C++/CLI tutorial. It then quickly moves to the key themes of native/managed code interop and mixed-mode programming. You ll learn to take advantage of GUI frameworks like Windows Forms and WPF while keeping your native C++ business logic. The book also covers methods for accessing C# or VB.NET components and libraries.

CEP Software Directory - 1998

SQL Server 2012 Data Integration Recipes - Adam Aspin 2013-01-26
SQL Server 2012 Data Integration Recipes provides focused and practical solutions to real world problems of data integration. Need to import data into SQL Server from an outside source? Need to export data and send it to another system? SQL Server 2012 Data Integration Recipes has your back. You'll find solutions for importing from Microsoft Office data stores such as Excel and Access, from text files such as CSV files, from XML, from other database brands such as Oracle and MySQL, and even from other SQL Server databases. You'll learn techniques for managing metadata, transforming data to meet the needs of the target system, handling exceptions and errors, and much more. What DBA or developer isn't faced with the need to move data back and forth? Author Adam Aspin brings 10 years of extensive ETL experience involving SQL Server, and especially satellite products such as Data Transformation Services and SQL Server Integration Services. Extensive coverage is given to Integration Services, Microsoft's flagship tool for data integration in SQL Server environments. Coverage is also given to the broader range of tools such as OPENDATASOURCE, linked servers, OPENROWSET, Migration Assistant for Access, BCP Import, and BULK INSERT just to name a few. If you're looking for a resource to cover data integration and ETL across the gamut of Microsoft's SQL Server toolset, SQL Server 2012 Data Integration Recipes is the one book that will meet your needs. Provides practical and proven solutions towards creating resilient ETL environments Clearly answers the tough questions which professionals ask Goes beyond the tools to a thorough discussion of the underlying techniques Covers the gamut of data integration, beyond just SSIS Includes example databases and files to allow readers to test the recipes

Modern Industrial Automation Software Design - Lingfeng Wang 2006-01-20
The main subjects in this book relate to software developmentusing cutting-edge technologies for real-world industrialautomation applications A hands-on approach to applying a wide variety of emergingtechnologies to modern industrial practice problems Explains key concepts through clear examples, ranging fromsimple to more complex problem domains, and all based on real-worldindustrial problems A useful reference book for practicing engineers as well as anupdated resource book for researchers

Human-Like Machine Intelligence - Stephen Muggleton 2021
This book, authored by an array of internationally recognised researchers, is of direct relevance to all those involved in Academia and Industry wanting to obtain insights into the topics at the forefront of the revolution in Artificial Intelligence and Cognitive Science.

A World of Imagination - Danielle Van Alst 2017-10-25
What would you do on a day off from school? Go on an adventure, of course! Meet Charlie, an eight-year-old boy with a flare for using his imagination. Join him as he turns his snow day into a day filled with fun, excitement, and fantasy. Travel with Charlie to the Wild West, the Amazon jungle, and into outer space. Ride along for the thrills as he becomes a race car driver, a pirate, a cowboy, and even a superhero! With a little creativity (and a basement full of junk), there is no limit to where your imagination can take you!

The Web Wizard's Guide to XML - Cheryl M. Hughes 2002
This Web Wizard guide covers XML. It is one of a series which teaches readers how to create Web sites that should have an audience coming back for more. From setting up a simple Web page to integrating forms and animations into pages, this book aims to help readers create user-friendly sites.

Practical PHP and MySQL - Jono Bacon 2007
Quickly learn how to build dynamic Web sites with PHP and MySQL using this book's unique case study approach.

The Windows Interface - Microsoft Corporation 1992
The official guidelines and standards for designing a Windows 3 user interface. This book discusses the principles of design that are fundamental to creating a well-designed, visually and functionally consistent user interface. An essential reference for all Windows programmers.

Programming Windows - Charles Petzold 1998-11-11
"Look it up in Petzold" remains the decisive last word in answering questions about Windows development. And in PROGRAMMING WINDOWS, FIFTH EDITION, the esteemed Windows Pioneer Award-winner revises his classic text with authoritative coverage of the latest versions of the Windows operating system—once again drilling down to the essential API heart of Win32 programming. Topics include: The basics—input, output, dialog boxes An introduction to Unicode Graphics—drawing, text and fonts, bitmaps and metafiles The kernel and the printer Sound and music Dynamic-link libraries Multitasking and multithreading The Multiple-Document Interface Programming for the Internet and intranets Packed as always with definitive examples, this newest Petzold delivers the ultimate sourcebook and tutorial for Windows programmers at all levels working with Microsoft Windows 95, Windows 98, or Microsoft Windows NT. No aspiring or experienced developer can afford to be without it. An electronic version of this book is available on the companion CD. For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Instrumentation & Control Systems - 1994

Atmel AVR Microcontroller Primer - Steven F. Barrett 2012
This textbook provides practicing scientists and engineers a primer on the Atmel AVR microcontroller. In this second edition we highlight the popular ATmega164 microcontroller and other pin-for-pin controllers in the family with a complement of flash memory up to 128 kbytes. The second edition also adds a chapter on embedded system design fundamentals and provides extended examples on two different autonomous robots. Our approach is to provide the fundamental skills to quickly get up and operating with this internationally popular microcontroller. We cover the main subsystems aboard the ATmega164, providing a short theory section followed by a description of the related microcontroller subsystem with accompanying hardware and software to exercise the subsystem. In all examples, we use the C programming language. We include a detailed chapter describing how to interface the microcontroller to a wide variety of input and output devices and conclude with several system level examples. Table of Contents: Atmel AVR Architecture Overview / Serial Communication Subsystem / Analog-to-Digital Conversion / Interrupt Subsystem / Timing Subsystem / Atmel

AVR Operating Parameters and Interfacing / Embedded Systems Design

Advances in Emerging Trends and Technologies - Miguel Botto-Tobar 2021-01-19

This book constitutes the proceedings of the 2nd International Conference on Advances in Emerging Trends and Technologies (ICAETT 2020), held in Riobamba, Ecuador, on 26–30 October 2019, proudly organized by Facultad de Informática y Electrónica (FIE) at Escuela Superior Politécnica de Chimborazo and supported by GDEON. ICAETT 2020 brings together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Communicationse-Government and e-Participatione-LearningElectronicIntelligent SystemsMachine VisionSecurityTechnology Trends

Open Source SOA - Jeff Davis 2009-04-30

You can build a world-class SOA infrastructure entirely using popular, andmature, open-source applications. Unfortunately, the technical documentationfor most open-source projects focuses on a specific product, the big SOA picture.You're left to your own devices to figure out how to cobble together a fullsolution from the various bits. In other words, unless you already know howMule and Tuscany work with jBPM, you're stuck. Open Source SOA shows readers how to build an entire SOA application usingopen-source technologies. It shows readers how to apply key ideas like EnterpriseService Bus (ESB) design and Business Process Management (BPM) and learnthe tools and techniques to implement them effectively. To pull everything together, the author describes real-life case studies from hisown work to tie together all the principles and practices. These hard-to-find casestudies are pure gold for the reader, as most developers keep these trade secretsto themselves. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Intelligent Optimization and Control of Complex Metallurgical Processes - Min Wu 2019-11-09

This book discusses the intelligent optimization and control of complex metallurgical processes, including intelligent optimization and control of raw-material proportioning processes, coking process, and reheating furnaces; intelligent control of thermal state parameters in sintering processes; and intelligent decoupling control of gas collection and mixing-and-pressurization processes. The intelligent control and optimization methods presented were originally applied to complex metallurgical processes by the authors, and their effectiveness and their advantages have been theoretically proven and demonstrated practically. This book offers an up-to-date overview of this active research area, and provides readers with state-of-the-art methods for the control of complex metallurgical processes.

GAMP Good Practice Guide - 2005-01-01

Geomechanics Applied to the Petroleum Industry - Jean-François Nauroy 2011

Designing an efficient drilling program is a key step for the development of an oil and/or gas field. Variations in reservoir pressure, saturation and temperature, induced by reservoir production or CO_2 injection, involve various coupled physical and chemical processes. Geomechanics, which consider all thermohydromechanical phenomena involved in rock behavior, play an important role in every operation involved in the exploitation of hydrocarbons, from drilling to production, and in CO_2 geological storage operations as well. Pressure changes in the reservoir modify the in situ stresses and induce strains, not only within the reservoir itself, but also in the entire sedimentary column. In turn, these stress variations and associated strains modify the fluids flow in the reservoir and change the wellbore stability parameters. This book offers a large overview on applications of Geomechanics to petroleum industry. It presents the fundamentals of rock mechanics, describes the methods used to characterise rocks in the laboratory and the modelling of their mechanical behaviour ; it gives elements of numerical geomechanical modelling at the site scale. It also demonstrates the role of Geomechanics in the optimisation of drilling and production : it

encompasses drillability, wellbore stability, sand production and hydraulic fracturing ; it provides the basic attainments to deal with the environmental aspects of heave or subsidence of the surface layers, CO_2 sequestration and well abandonment ; and it shows how seismic monitoring and geomechanical modelling of reservoirs can help to optimise production or check cap rock integrity. This book will be of interest to all engineers involved in oil field development and petroleum engineering students, whether drillers or producers. It aims also at providing a large range of potential users with a simple approach of a broad field of knowledge.

Advances in Production Management Systems - Jan Olhager 2007-12-24
This book brings together some of the latest thinking by leading experts from around the world on integrating systems and strategies in production management and related issues that are relevant for making production into a competitive resource for the firm. This book is composed of five parts, each focused on a specific theme: Linking systems and strategies; Strategic operations management; IS/IT applications in the value chain; Modelling and simulation; Improving operations.

Advanced Industrial Control Technology - Peng Zhang 2010-08-26
Control engineering seeks to understand physical systems, using mathematical modeling, in terms of inputs, outputs and various components with different behaviors. It has an essential role in a wide range of control systems, from household appliances to space flight. This book provides an in-depth view of the technologies that are implemented in most varieties of modern industrial control engineering. A solid grounding is provided in traditional control techniques, followed by detailed examination of modern control techniques such as real-time, distributed, robotic, embedded, computer and wireless control technologies. For each technology, the book discusses its full profile, from the field layer and the control layer to the operator layer. It also includes all the interfaces in industrial control systems: between controllers and systems; between different layers; and between operators and systems. It not only describes the details of both real-time operating systems and distributed operating systems, but also provides coverage of the microprocessor boot code, which other books lack. In addition to working principles and operation mechanisms, this book emphasizes the practical issues of components, devices and hardware circuits, giving the specification parameters, install procedures, calibration and configuration methodologies needed for engineers to put the theory into practice. Documents all the key technologies of a wide range of industrial control systems Emphasizes practical application and methods alongside theory and principles An ideal reference for practicing engineers needing to further their understanding of the latest industrial control concepts and techniques

Enterprise Iot - Naveen Balani 2016-01-15
Internet of Things (IoT) is one of the most hyped concept in today's technology world. However, with so much hype, still there is a lot of confusion on what does Internet of Things actually mean and what it takes to build IoT applications and how to apply it in various industries. There exist many definitions on "Internet of Things" and even getting on to a same terminology and definition seems difficult nowadays. We have seen multiple definitions over a period of time, such as 'Internet of Everything', 'Internet of your Things', 'Internet of People' and the list goes on. They all mean the same, so let's start with a simple definition of Internet of Things. "Internet of Things is a vision where every object in the world has the potential to connect to the Internet and provide their data so as to derive actionable insights on its own or through other connected objects" The object can be anything - a vehicle, machinery, airport, city, people, phone or even a shoe. From a connected vehicle solution, you can understand the driver behaviour and vehicle usage patterns, from a connected machines solution you can determine when do machines need servicing, from a connected airport solution you can understand many things like - how much time the passenger needs to wait for check-in and security, from an operating perspective it could help to optimize the passenger movement and ensure the right equipments are available at the right time to ensure quick serviceability and finally say, from a connected footwear solution you can understand

how much you have run so far and your app can automatically purchase a new pair of shoes based on the remaining shoe life. As we can see, it's not just about connectivity, but how to use the connected data in context of your application or for that matter other connected solutions to derive insights which can't be uncovered before. Today we are seeing data (both structured and unstructured) growing by leaps and bounds available through mediums like blogs, social media, transactional systems etc. With advent of IoT, you will see a large volume of raw data emitting from devices like sensors. Such huge and complex set of data, if not attended to, can go wasted and opportunity lost in terms of building smart environment around us. While focusing on issue of addressing this web of complexity, often understanding the real benefit of IoT is lost and most importantly how to get started on IoT. In this book, our focus will be to provide a clear vision on IoT and everything you should know to get started on applying and building Enterprise IoT applications in any industry. The concepts listed down in the book are applicable across industries. Till date, it's difficult to find a single perspective of what does an Enterprise IoT stack actually mean and our intent is to provide an applicability guide that can be taken as reference for building any IoT application. In the course of the book, we would describe some of the key components of Internet of Things through our Enterprise IoT stack. We would look at how to incrementally apply IoT transformations to build connected products in various industries. At the end, we would understand the technical strategy and how to build IoT applications using IoT cloud offerings from Microsoft, IBM, and Amazon and even build one using open source technologies. To summarize, as part of the book we would cover the following - * A detailed overview of key components of Internet of Things and most comprehensive view of an Enterprise IoT stack. * How to apply IoT in context of real world applications by covering detailed use cases on manufacturing, automotive and home automation. * Understand the technical strategy and how to implement IoT applications using Microsoft Azure and IoT Suite, IBM Internet of Things Foundation and BlueMix, Amazon IoT and AWS services and various open source technologies like Apache Kakfa,

Apache Spark and map it to our Enterprise IoT Stack.
Real-World Functional Programming - Tomas Petricek 2009-11-30 Functional programming languages like F#, Erlang, and Scala are attractingattention as an efficient way to handle the new requirements for programmingmulti-processor and high-availability applications. Microsoft's new F# is a truefunctional language and C# uses functional language features for LINQ andother recent advances. Real-World Functional Programming is a unique tutorial that explores thefunctional programming model through the F# and C# languages. The clearlypresented ideas and examples teach readers how functional programming differsfrom other approaches. It explains how ideas look in F#-a functionallanguage-as well as how they can be successfully used to solve programmingproblems in C#. Readers build on what they know about .NET and learn wherea functional approach makes the most sense and how to apply it effectively inthose cases. The reader should have a good working knowledge of C#. No prior exposure toF# or functional programming is required. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.
Instrument Engineers' Handbook, Volume 3 - Bela G. Liptak 2016-04-19 Instrument Engineers' Handbook – Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the

wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power.

Practical Windows Forensics - Ayman Shaaban 2016-06-29
Leverage the power of digital forensics for Windows systems About This Book Build your own lab environment to analyze forensic data and practice techniques. This book offers meticulous coverage with an example-driven approach and helps you build the key skills of performing forensics on Windows-based systems using digital artifacts. It uses specific open source and Linux-based tools so you can become proficient at analyzing forensic data and upgrade your existing knowledge. Who This Book Is For This book targets forensic analysts and professionals who would like to develop skills in digital forensic analysis for the Windows platform. You will acquire proficiency, knowledge, and core skills to undertake forensic analysis of digital data. Prior experience of information security and forensic analysis would be helpful. You will gain knowledge and an understanding of performing forensic analysis with tools especially built for the Windows platform. What You Will Learn Perform live analysis on victim or suspect Windows systems locally or remotely Understand the different natures and acquisition techniques of volatile and non-volatile data. Create a timeline of all the system actions to restore the history of an incident. Recover and analyze data from FAT and NTFS file systems. Make use of various tools to perform registry analysis. Track a system user's browser and e-mail activities to prove or refute some hypotheses. Get to know how to dump and analyze computer memory. In Detail Over the last few years, the wave of the cybercrime has risen rapidly. We have witnessed many major attacks on the governmental, military, financial, and media sectors. Tracking all these attacks and crimes requires a deep understanding of operating system operations, how to extract evident data from digital evidence, and the best usage of the digital forensic tools and techniques. Regardless of your level of experience in the field of information security in general, this book will fully introduce you to digital forensics. It will provide you with the knowledge needed to assemble different types of evidence effectively, and walk you through the various stages of the analysis process. We start by discussing the principles of the digital forensics process and move on to show you the approaches that are used to conduct analysis. We will then study various tools to perform live analysis, and go through different techniques to analyze volatile and non-volatile data. Style and approach This is a step-by-step guide that delivers knowledge about different Windows artifacts. Each topic is explained sequentially, including artifact analysis using different tools and techniques. These techniques make use of the evidence extracted from infected machines, and are accompanied by real-life examples.

Critical Infrastructure Protection - E. Goetz 2007-11-07
The information infrastructure--comprising computers, embedded

devices, networks and software systems--is vital to operations in every sector. Global business and industry, governments, and society itself, cannot function effectively if major components of the critical information infrastructure are degraded, disabled or destroyed. This book contains a selection of 27 edited papers from the First Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection.

HVAC Control in the New Millennium - Michael F. Hordeski 2001 1-Heat, Ventilation and Damper Control Trends2-Energy and Power Management, Distributed Control Trends3-Control Technology, Microelectronics and Nanotechnology4-Advance HVAC Control, Information Technology and Open Systems5-PC-based Control, Software and Bus Trends6-Artificial Intelligence, Fuzzy Logic and Control7-Computer Networks and Security8-Systems and Device Networks9-Building automation, Wireless Technology and the InternetIndex

Mastering Azure Virtual Desktop - Ryan Mangan 2022-02-16 Learn how to design, implement, configure, and manage your Azure Virtual Desktop environment Key Features: Learn everything about designing and deploying an Azure Virtual Desktop environment Gain in-depth insights into Azure Virtual Desktop and prepare successfully for the AZ-140 exam Explore best practices and expert tips on how to set up Azure Virtual Desktop Book Description: Azure Virtual Desktop is a cloud desktop virtualization platform that securely delivers virtual desktops and remote apps. Mastering Azure Virtual Desktop will guide you through designing, implementing, configuring, and maintaining an Azure Virtual Desktop environment effectively. This book can also be used as an exam preparation guide to help you sit the Microsoft AZ-140 exam. You'll start with an introduction to the essentials of Azure Virtual Desktop. Next, you'll get to grips with planning an Azure Virtual Desktop architecture before learning how to implement an Azure Virtual Desktop environment. Moving ahead, you'll learn how to manage and control access as well as configure security controls on your Azure Virtual Desktop environment. As you progress, you'll understand how to manage user environments and configure MSIX app attach and other Azure Virtual Desktop features to enhance the user experience. You'll also learn about the Azure Active Directory (AD) join and getting started feature. Finally, you'll discover how to monitor and maintain an Azure Virtual Desktop environment to help you support your users and diagnose issues when they occur. By the end of this Microsoft Azure book, you'll have covered all the essential topics you need to know to design and manage Azure Virtual Desktop and prepare for the AZ-140 exam. What You Will Learn: Design Azure Virtual Desktop and user identities and profiles Implement networking and storage for Azure Virtual Desktop Create and configure session host images and host pools Manage access and security for MS Azure Virtual Desktop Implement FSLogix Profile Containers and FSLogix Cloud Cache Configure user experience and Azure Virtual Desktop features Plan and implement business continuity and disaster recovery Automate Azure Virtual Desktop tasks Who this book is for: If you are an IT professional, workspace administrator, architect, or consultant looking to learn about designing, implementing, and managing Azure Virtual Desktop, this book is for you. You'll also find this book helpful if you're preparing for the Microsoft AZ-140 exam.