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COMPUTER-BASED INDUSTRIAL CONTROL

KRISHNA KANT



Computer Based Industrial Control By Krishnakant



KRISHNA KANT

Computer Based Industrial Control By Krishnakant:

COMPUTER-BASED INDUSTRIAL CONTROL, Second Edition Kant, Krishna, 2011-07-30 This book now in its second edition presents in a comprehensive manner the fundamentals of computer based control of industrial processes Intended primarily for undergraduate and postgraduate students of instrumentation electronics engineering the book will also be immensely useful for professionals and researchers in these fields The book begins with a thorough introduction to automation its history utility and the current scenario It then moves on to discuss in detail the techniques components subsystems and system architectures relevant to process control The control techniques covered include classical controls as well as newer controls such as model based adaptive control self tuning control expert systems and fuzzy logic control The components consist of sensors and actuators of various types The subsystems covered are SCADA systems remote terminal units for telemetry and telecontrol programmable controllers distributed digital controllers and personal computers Also included are real time operating systems and real time programming languages The major architectures discussed are distributed digital control distributed SCADA system and multi microprocessor architectures The book thoroughly covers the various technological developments in this field It also covers through a number of case studies the applications of computer based control in major industries The second edition contains substantially revised and updated content on a large number of topics covered in the first edition Instrumentation and Process Control Janardan Prasad, M. N. Jayaswal, Vishnu

Priye, 2009-12 Instrumentation and control system is the heart of all processing industries No process can run without the aid of instrumentation Therefore sometimes it is said that instruments are eyes of process through which a process operators visualize the process behaviour Instrumentation and control concepts have undergone a drastic change over the past few years The book is meant for the graduate level course of Instrumentation and Process Control Electrical Electronics and Instrumentation Control disciplines The topics have been divided in 8 chapters The first three are devoted to Transducers In these chapters stress has been given on Transducer Signal Selection Pneumatic Transmitters Smart Transmitters Special Class Thermocouple Nucleonic Level Gage Electronic Level Gage others In the chapter on Telemetry pneumatic transmissions have been added in addition to usual topics In the chapter Process Control three element control systems have been described through examples of Boiler Drum Level Control And lastly in Recent Developments Microprocessor Based Instrumentation System development of PLC and distributed control system and instrumentation communication protocol have been described in greater detail with suitable examples The book is a perfect match of instruments that are still in use and which have been recently developed **MICROPROCESSORS AND MICROCONTROLLERS** KRISHNA

KANT, 2007-10-22 This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers their principles and applications It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel s legendary 8085 and 8086 microprocessors and Intel s 8051

and 8096 microcontrollers The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design Besides the book lucidly explains the hardware architecture the instruction set and programming support chips peripheral interfacing and cites several relevant examples to help the readers develop a complete understanding of industrial application projects Several system design case studies are included to reinforce the concepts discussed With exhaustive coverage provided and practical approach emphasized the book would be indispensable to undergraduate students of Electrical and Electronics Electronics and Communication and Electronics and Instrumentation Engineering It can be used for a variety of courses in Microprocessors Microcontrollers and Embedded System Design

Distributed Computer Control Systems in Industrial Automation Dobrivojic Popovic, Vijay P. Bhatkar, 1990-03-30 A reference guide for professionals or text for graduate and postgraduate students this volume emphasizes practical designs and applications of distributed computer control systems It demonstrates how to improve plant productivity enhance product quality and increase the safety reliability and *MICROPROCESSORS AND MICROCONTROLLERS :: ARCHITECTURE, PROGRAMMING AND SYSTEM DESIGN 8085, 8086, 8051, 8096* KANT, KRISHNA, 2014-01-01 This book provides the students with a solid foundation in the technology of microprocessors and microcontrollers their principles and applications It comprehensively presents the material necessary for understanding the internal architecture as well as system design aspects of Intel's legendary 8085 and 8086 microprocessors and Intel's 8051 and 8096 microcontrollers The book throughout maintains an appropriate balance between the basic concepts and the skill sets needed for system design Besides the book lucidly explains the hardware architecture the instruction set and programming support chips peripheral interfacing and cites several relevant examples to help the readers develop a complete understanding of industrial application projects Several system design case studies are included to reinforce the concepts discussed With exhaustive coverage and practical approach the book would be indispensable to undergraduate students of Electrical and Electronics Electronics and Communication and Electronics and Instrumentation Engineering It can be used for a variety of courses in Microprocessors Microcontrollers and Embedded System Design The second edition of the book introduces additional topics like I/O interfacing and programming serial interface programming delay programming using 8086 and 8051 Besides many more examples and case studies have been added *MICROPROCESSOR-BASED AGRI INSTRUMENTATION* KANT, KRISHNA, 2013-01-01 This book provides the fundamental concepts of system design using microprocessors in the field of agriculture instrumentation It begins with an introduction to the field of agriculture and application of instrumentation in agriculture and the book then covers the transducers specific to the agricultural field The binary number system and arithmetic are covered as the basic building block of digital circuits and computer organization The microprocessor basics and Intel 8085 hardware and software have been discussed in detail The book describes microprocessor peripheral interfacing and its support chips such as Intel 8225 Intel 8253 and Intel 8279 along with their applications It discusses analog to

digital and digital to analog interface CRT terminal interface and printer interface In addition the book includes case studies on various microprocessor applications in agriculture such as microprocessor based system design for grain moisture safe grain storage soil nutrient estimation and drip irrigation Finally the book ends with an advanced and futuristic topic on precision agriculture to give an exposure to students about future developments in the agricultural system

Key Features

- From concepts to design the book follows a step by step approach
- Gives a large number of figures for easy understanding of theory
- Includes a good number of examples and end of chapter exercises both in the hardware and software sections
- Presents a number of case studies on the design of microprocessor based agri instrumentation systems
- Offers exercises on the case studies which can be used for further development of the concepts

The book is primarily intended for the undergraduate and postgraduate students of agricultural engineering for their courses on agri instrumen tation and microprocessor applications in agriculture

Tiet.com-2000. Surekha Bhanot,2000 *Real Time Microcomputer Control of Industrial Processes* S.G. Tzafestas,J.K. Pal,2012-12-06

The introduction of the microprocessor in computer and system engineering has motivated the development of many new concepts and has simplified the design of many modern industrial systems During the first decade of their life microprocessors have shown a tremendous evolution in all possible directions technology power functionality I O handling etc Of course putting the microprocessors and their environmental devices into properly operating systems is a complex and difficult task requiring high skills for melding and integrating hardware and systemic components software This book was motivated by the editors feeling that a cohesive reference is needed providing a good coverage of modern industrial applications of microprocessor based real time control together with latest advanced methodological issues Unavoidably a single volume cannot be exhaustive but the present book contains a sufficient number of important real time applications The book is divided in two sections Section I deals with general hardware software and systemic topics and involves six chapters Chapter 1 by Gupta and Toong presents an overview of the development of microprocessors during their first twelve years of existence Chapter 2 by Dasgupta deals with a number of system software concepts for real time microprocessor based systems task scheduling memory management input output aspects programming language reqUirements

Emergence of Cyber Physical System and IoT in Smart Automation and Robotics Krishna Kant Singh,Anand Nayyar,Sudeep Tanwar,Mohamed Abouhawwash,2021-05-04

Cyber Physical Systems CPS integrate computing and communication capabilities by monitoring and controlling the physical systems via embedded hardware and computers This book brings together new and futuristic findings on IoT Cyber Physical Systems and Robotics leading towards Automation and solving issues of various critical applications in Real time The book initially overviews the concepts of IoT IIoT and Cyber Physical Systems followed by various critical applications and discusses the latest designs and developments that provide common solutions for the convergence of technologies In addition the book specifies methodologies algorithms and other relevant architectures in various fields that include Automation Robotics Smart

Agriculture and Industry 4.0 The book is intended for practitioners enterprise representatives scientists students and Ph D Scholars in hopes of steering research further towards cyber physical systems design and development and implementation across various domains Additionally this book can be used as a secondary reference or rather one stop guide by professionals for real life implementation of cyber physical systems The book highlights A Critical Coverage of various domains IoT Cyber Physical Systems Industry 4.0 Smart Automation and related critical applications Advanced elaborations for target audiences to understand the conceptual methodology and future directions of cyber physical systems and IoT An approach towards Research Orientations to enable researchers to point out areas and scope for implementation of Cyber Physical Systems in several domains for better productivity

Handbook on Securing Cyber-Physical Critical Infrastructure Sajal K Das, Krishna Kant, Nan Zhang, 2012-01-25 The worldwide reach of the Internet allows malicious cyber criminals to coordinate and launch attacks on both cyber and cyber physical infrastructure from anywhere in the world This purpose of this handbook is to introduce the theoretical foundations and practical solution techniques for securing critical cyber and physical infrastructures as well as their underlying computing and communication architectures and systems Examples of such infrastructures include utility networks e g electrical power grids ground transportation systems automotives roads bridges and tunnels airports and air traffic control systems wired and wireless communication and sensor networks systems for storing and distributing water and food supplies medical and healthcare delivery systems as well as financial banking and commercial transaction assets The handbook focus mostly on the scientific foundations and engineering techniques while also addressing the proper integration of policies and access control mechanisms for example how human developed policies can be properly enforced by an automated system Addresses the technical challenges facing design of secure infrastructures by providing examples of problems and solutions from a wide variety of internal and external attack scenarios Includes contributions from leading researchers and practitioners in relevant application areas such as smart power grid intelligent transportation systems healthcare industry and so on Loaded with examples of real world problems and pathways to solutions utilizing specific tools and techniques described in detail throughout

The Top Books of the Year Computer Based Industrial Control By Krishnakant The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Computer Based Industrial Control By Krishnakant : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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