# MICROPROCESSORS AND MICROCONTROLLERS

## Architecture, Programming and System Design
## 8085, 8086, 8051, 8096

## Krishna Kant

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*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    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    Towards Smart World Lavanya Sharma,2020-12-13 Towards Smart World Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and communication to IoT for making cities smart real time applications domains related technologies and their possible solutions for handling relevant challenges This book highlights the utilization of IoT for making cities smart and its underlying technologies in real time application areas such as emergency departments intelligent traffic systems indoor and outdoor securities automotive industries environmental monitoring business entrepreneurship facial recognition and motion based

object detection Features The book covers the challenging issues related to sensors detection and tracking of moving objects and solutions to handle relevant challenges It contains the most recent research analysis in the domain of communications signal processing and computing sciences for facilitating smart homes buildings environmental conditions and cities It presents the readers with practical approaches and future direction for using IoT in smart cities and discusses how it deals with human dynamics the ecosystem and social objects and their relation It describes the latest technological advances in IoT and visual surveillance with their implementations This book is an ideal resource for IT professionals researchers undergraduate or postgraduate students practitioners and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities real time applications areas and technologies and a possible set of solutions to handle relevant challenges Dr Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP Noida India She has been a recipient of several prestigious awards during her academic career She is an active nationally recognized researcher who has published numerous papers in her field **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 *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 inter facing 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 *Deep Learning and IoT in Healthcare Systems* Krishna Kant Singh,Akansha Singh,Jenn-Wei Lin,Ahmed A. Elngar,2021-12-14 This new volume discusses the applications and challenges of deep learning and the internet of things for applications in healthcare It describes deep learning techniques in conjunction with IoT used by practitioners and researchers worldwide The authors explore the convergence of IoT and deep learning to enable things to communicate share information and coordinate decisions The book includes deep feedforward networks regularization optimization algorithms convolutional networks sequence modeling and practical methodology Chapters look at assistive devices in healthcare alerting and detection devices energy efficiency in using IoT data mining for gathering health information for individuals with autism IoT for mobile applications and more The text also offers mathematical and conceptual background that presents the latest technology as well as a selection of case studies *Blockchain and Deep Learning for Smart Healthcare* Akansha Singh,Anuradha Dhull,Krishna Kant Singh,2024-01-31 BLOCKCHAIN and DEEP LEARNING for SMART HEALTHCARE The book discusses the popular use cases and applications of blockchain technology and deep learning in building smart healthcare The book covers the integration of blockchain technology and deep learning for making smart healthcare systems Blockchain is used for health record keeping clinical trials patient monitoring improving safety displaying information and transparency Deep learning is also showing vast potential in the healthcare domain With the collection of large quantities of patient records and data and a trend toward personalized treatments there is a great need for automated and reliable processing and analysis of health information This book covers the popular use cases and applications of both the above mentioned technologies in making smart healthcare Audience Comprises professionals and researchers working in the fields of deep learning blockchain technology healthcare medical informatics In addition as the book provides insights into the convergence of deep learning and blockchain technology in healthcare systems and services medical practitioners as well as healthcare professionals will find this essential reading **Using Compression to Improve Chip Multiprocessor Performance** Alaa

R. Alameldeen,2006

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