

# Lecture Notes on 8051 Microcontroller

## 1. Introduction to 8051 Microcontroller

Microcontroller is a single chip microcomputer which consists of CPU, Memory, I/O ports, timers and other peripherals. The difference between microprocessor and microcontroller is microprocessor is a single integrated CPU whereas microcontroller is single chip microcomputer. The world leaders of manufacturing of microprocessor and microcontroller are Intel, Motorola, IBM, Cyrix etc. Here we have to focus on microcontroller 8051.

In 1981 Intel Corporation introduced an 8 bit microcontroller called 8051.this microcontroller had 128 bytes of RAM, 4K bytes of on-chip ROM, two timers, one serial port and four ports (each 8bit wide) all on a single chip. It is an 8 bit processor means it can process 8 bit of data at a time. It has total of four I/O ports, each 8 bit wide.

### Features of 8051

Feature	Quantity
ROM	4K bytes
RAM	128bytes
Timer	2
I/O pins	32
Serial Port	1
Interrupt sources	6

## 2. Architecture of 8051

Fig 4.1 shows a simplified architecture for the internal Hardware. Fig 4.2 shows an overview of the internal hardware architecture of the 8051/8031 microcontrollers.

The CPU has the controlled and sequencing logic circuits with signals as in a microprocessor.



# Introduction To Microcontroller Lecture Notes

**Patrick F. Muir, Peter E. Orban**



## **Introduction To Microcontroller Lecture Notes:**

Hybrid Learning and Education Fu Lee Wang, Joseph Fong, Liming Zhang, Victor K. S. Lee, 2010-03-24 The Second International Conference on Hybrid Learning was organized by the School of Continuing and Professional Studies of The Chinese University of Hong Kong and University of Macau in August 2009 ICHL 2009 was an inventive experience for the Hong Kong and Macau tertiary higher education The conference aims to provide a good platform for knowledge exchange on hybrid learning by focusing on student centered education The technique is to supplement traditional classroom learning with eLearning The slogan is Education leads eLearning not vice versa The methodology is that at least 30% of learning activities are done by eLearning The outcome is for students to learn at any time at any place eLearning can increase students learning productivity and reduce teachers administration workload alike It is a new culture for students teachers and school administrators to adopt in the twenty first century The conference obtained sponsorship from Pei Hua Education Foundation Limited City University of Hong Kong ACM Hong Kong Section and Hong Kong Computer Society Hybrid learning originated from North America in 2000 and is an ongoing trend It is not merely a simple combination of direct teaching and eLearning It encompasses different learning strategies and important elements for teaching and learning It emphasizes outcome based teaching and learning and provides an environment for knowledge learning Students are given more opportunities to be active learners and practice practical skills such as communication collaboration critical thinking creativity self management self study problem solving analysis and numeracy

Secure Smart Embedded Devices, Platforms and Applications Konstantinos Markantonakis, Keith Mayes, 2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors

**Intelligent Computing Techniques for Smart Energy Systems** Anshuman Tripathi, Amit Soni, Manish Tiwari, Anil Swarnkar, Jagrati Sahariya, 2024-12-28 This book compiles the best selected research papers presented during the 3rd International Conference on Intelligent Computing Techniques for

Smart Energy Systems ICTSES 2023 held at Manipal University Jaipur Rajasthan India It presents the diligent work of the research community where intelligent computing techniques are applied in allied fields of engineering ranging from engineering materials to electrical engineering to electronics and communication engineering to computer related fields The theoretical research concepts are supported with extensive reviews highlighting the trends in the possible and real life applications of computational intelligence The high quality content with broad range of the topics is thoroughly peer reviewed and published on suitable recommendations

Design and Modeling of Mechanical Systems - II Mnaouar Chouchane, Tahar Fakhfakh, Hachmi Ben Daly, Nizar Aifaoui, Fakhher Chaari, 2015-03-24 This book offers a collection of original peer reviewed contributions presented at the 6th International Congress on Design and Modeling of Mechanical Systems CMSM 2015 held in Hammamet Tunisia from the 23rd to the 25th of March 2015 It reports on both recent research findings and innovative industrial applications in the fields of mechatronics and robotics dynamics of mechanical systems fluid structure interaction and vibroacoustics modeling and analysis of materials and structures and design and manufacturing of mechanical systems Since its first edition in 2005 the CMSM Congress has been held every two years with the aim of bringing together specialists from universities and industry to present the state of the art in research and applications discuss the most recent findings and exchange and develop expertise in the field of design and modeling of mechanical systems The CMSM Congress is jointly organized by three Tunisian research laboratories the Mechanical Engineering Laboratory of the National Engineering School of Monastir the Mechanical Laboratory of Sousse part of the National Engineering School of Sousse and the Mechanical Modeling and Manufacturing Laboratory at the National Engineering School of Sfax

Advanced Technologies, Systems, and Applications II Mirsad Hadžikadić, Samir Avdaković, 2018-01-30 This book presents innovative and interdisciplinary applications of advanced technologies It includes the scientific outcomes of the 9th DAYS OF BHAAAS Bosnian Herzegovinian American Academy of Arts and Sciences held in Banja Vru ica Tesli Bosnia and Herzegovina on May 25 28 2017 This unique book offers a comprehensive multidisciplinary and interdisciplinary overview of the latest developments in a broad section of technologies and methodologies viewed through the prism of applications in computing networking information technology robotics complex systems communications energy mechanical engineering economics and medicine to name just a few

**FIE '98, Tempe, Arizona**, 1998 **Modeling and Simulation**, 1991 The British National Bibliography Arthur James Wells, 2007 **Introduction to Embedded Systems** Manuel Jiménez, Rogelio Palomera, Isidoro Couvertier, 2013-09-11 This textbook serves as an introduction to the subject of embedded systems design using microcontrollers as core components It develops concepts from the ground up covering the development of embedded systems technology architectural and organizational aspects of controllers and systems processor models and peripheral devices Since microprocessor based embedded systems tightly blend hardware and software components in a single application the book also introduces the subjects of data representation formats data operations and

programming styles The practical component of the book is tailored around the architecture of a widely used Texas Instrument s microcontroller the MSP430 and a companion web site offers for download an experimenter s kit and lab manual along with Powerpoint slides and solutions for instructors

**Subject Guide to Books in Print** ,2001  
**American Book Publishing Record** ,2005      **Summary Progress Report** Synthesis Coalition,1995      **Sensors and Controls for Intelligent Machining, Agile Manufacturing, and Mechatronics** Patrick F. Muir,Peter E. Orban,1998 This collection of papers from SPIE s Intelligent Systems and Advanced Manufacturing Symposium includes articles on a variety of relevant issues and topics      **29th Annual Frontiers in Education Conference** Puerto Rico) Frontiers in Education Conference (29th : 1999 : San Juan,1999      **Computer Books and Serials in Print** ,1984      *Computer Aided Systems Theory* ,1997      **Frontiers in Education 1997** ,1997      **IBM Journal of Research and Development** ,1985      The PIC Microcontroller: Your Personal Introductory Course John Morton,2005-09-23 John Morton offers a uniquely concise and practical guide to getting up and running with the PIC Microcontroller The PIC is one of the most popular of the microcontrollers that are transforming electronic project work and product design and this book is the ideal introduction for students teachers technicians and electronics enthusiasts Assuming no prior knowledge of microcontrollers and introducing the PIC Microcontroller s capabilities through simple projects this book is ideal for electronics hobbyists students school pupils and technicians The step by step explanations and the useful projects make it ideal for student and pupil self study this is not just a reference book you start work with the PIC microcontroller straight away The revised third edition focuses entirely on the re programmable flash PIC microcontrollers such as the PIC16F54 PIC16F84 and the extraordinary 8 pin PIC12F508 and PIC12F675 devices Demystifies the leading microcontroller for students engineers an hobbyists Emphasis on putting the PIC to work not theoretical microelectronics Simple programs and circuits introduce key features and commands through project work      **Proceedings of the IEEE 26th Annual Northeast Bioengineering Conference** John D. Enderle,2000 These conference proceedings cover such topics as the development of an animal model for carious cervical lesion study the influence of wavelet boundary conditions on the conditions of the classification on biological signals and home asthma telemonitoring systems

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## **Table of Contents Introduction To Microcontroller Lecture Notes**

1. Understanding the eBook Introduction To Microcontroller Lecture Notes
  - The Rise of Digital Reading Introduction To Microcontroller Lecture Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Microcontroller Lecture Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Introduction To Microcontroller Lecture Notes
  - User-Friendly Interface

4. Exploring eBook Recommendations from Introduction To Microcontroller Lecture Notes
  - Personalized Recommendations
  - Introduction To Microcontroller Lecture Notes User Reviews and Ratings
  - Introduction To Microcontroller Lecture Notes and Bestseller Lists
5. Accessing Introduction To Microcontroller Lecture Notes Free and Paid eBooks
  - Introduction To Microcontroller Lecture Notes Public Domain eBooks
  - Introduction To Microcontroller Lecture Notes eBook Subscription Services
  - Introduction To Microcontroller Lecture Notes Budget-Friendly Options
6. Navigating Introduction To Microcontroller Lecture Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Introduction To Microcontroller Lecture Notes Compatibility with Devices
  - Introduction To Microcontroller Lecture Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Introduction To Microcontroller Lecture Notes
  - Highlighting and Note-Taking Introduction To Microcontroller Lecture Notes
  - Interactive Elements Introduction To Microcontroller Lecture Notes
8. Staying Engaged with Introduction To Microcontroller Lecture Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Introduction To Microcontroller Lecture Notes
9. Balancing eBooks and Physical Books Introduction To Microcontroller Lecture Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Introduction To Microcontroller Lecture Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Microcontroller Lecture Notes
  - Setting Reading Goals Introduction To Microcontroller Lecture Notes
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Introduction To Microcontroller Lecture Notes
  - Fact-Checking eBook Content of Introduction To Microcontroller Lecture Notes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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