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Steven F. Barrett, Daniel J. Pack, 2022-06-01 This book provides practicing scientists and engineers a tutorial on the  
fundamental concepts and use of microcontrollers Today microcontrollers or single integrated circuit chip computers play  
critical roles in almost all instrumentation and control systems Most existing books are rewritten for undergraduate and  
graduate students taking an electrical and or computer engineering course Furthermore these texts have been written with a  
particular model of microcontroller as the target discussion These textbooks also require a requisite knowledge of digital  
design fundamentals This textbook presents the fundamental concepts common to all microcontrollers Our goals are to  
present the over arching theory of microcontroller operation and to provide a detailed discussion on constituent subsystems

available in most microcontrollers With such goals we envision that the theory discussed in this book can be readily applied to a wide variety of microcontroller technologies allowing practicing scientists and engineers to become acquainted with basic concepts prior to beginning a design involving a specific microcontroller We have found that the fundamental principles of a given microcontroller are easily transferred to other controllers Although this is a relatively small book it is packed with useful information for quickly coming up to speed on microcontroller concepts

**Handbook of Networked and Embedded Control Systems** Dimitrios Hristu-Varsakelis, William S. Levine, 2007-11-14 The vast majority of control systems built today are embedded that is they rely on built in special purpose digital computers to close their feedback loops Embedded systems are common in aircraft factories chemical processing plants and even in cars a single high end automobile may contain over eighty different computers The design of embedded controllers and of the intricate automated communication networks that support them raises many new questions practical as well as theoretical about network protocols compatibility of operating systems and ways to maximize the effectiveness of the embedded hardware This handbook the first of its kind provides engineers computer scientists mathematicians and students a broad comprehensive source of information and technology to address many questions and aspects of embedded and networked control Separated into six main sections Fundamentals Hardware Software Theory Networking and Applications this work unifies into a single reference many scattered articles websites and specification sheets Also included are case studies experiments and examples that give a multifaceted view of the subject encompassing computation and communication considerations

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