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Titolo	Digital system design : use of microcontroller / / Dawoud Shenouda Dawoud, R. Peplow, University of Kwa-Zulu, Natal
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Collana	River Publishers series in signal, image & speech processing ; ; volume 2
Altri autori (Persone)	PeplowR
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""Cover""; ""Contents""; ""List of Abbreviations""; ""1 Processor Design Metrics""; ""1.1 Introduction""; ""1.2 Common Design Metrics""; ""1.3 Performance Design Metrics""; ""1.3.1 Characteristics of a Good Performance Metric""; ""1.3.2 Some Popular Performance Metrics""; ""1.3.3 Analysing Algorithms""; ""1.4 Economic Design Metrics""; ""1.4.1 Time-to-Market""; ""1.4.2 Design Economics""; ""1.5 Power Design Metrics""; ""1.5.1 Reducing Power Consumption""; ""1.6 System Effectiveness Metrics""; ""1.6.1 Reliability, Maintainability and Availability Metrics""; ""1.7 Summary of the Chapter""</p> <p>""1.8 Review Questions""""2 A System Approach to Digital System Design""; ""2.1 Introduction""; ""2.2 System Design Flow""; ""2.2.1 Requirement Analysis""; ""2.2.2 Specifications""; ""2.2.3 Functional Design: System Architecture""; ""2.2.4 Hardware Overview""; ""2.2.5 Software Overview""; ""2.2.6 Target System and Solution""; ""2.3 Technologies Involved in the Design Process""; ""2.4 Design Technology""; ""2.4.1 Design Partitioning""; ""2.4.2 Use of Multiple Views (Multiple Description Domains): The Y-Chart""</p> <p>""2.4.3 Use of Structured Design: Functional Block-Structured Top-Down Design (Structural Hierarchy)""""2.4.4 Design Procedure Based on</p>

Top-Down Approach"; ""2.4.5 Programmable Digital Systems Design Using Block Structured Design"; ""2.5 IC-Technology; Implementation Technology"; ""2.5.1 Programmable Logic Device (PLD)"; ""2.6 Processor Technology"; ""2.6.1 Use of General-Purpose Processor (GPP)"; ""2.6.2 Single-Purpose Processor"; ""2.6.3 Application Specific Processor (e.g. Use of Microcontroller and DSP)"; ""2.6.4 Summary of IC Technology and Processor Technology""  
""2.7 Summary of the Chapter""""2.8 Review Questions"; ""3 Introduction to Microprocessors and Microcontrollers"; ""3.1 Introduction"; ""3.1.1 Processor Architecture and Microarchitecture"; ""3.2 The Microprocessor"; ""3.2.1 General-Purpose Registers"; ""3.2.2 Arithmetic and Logic Unit (ALU)"; ""3.2.3 Control Unit"; ""3.2.4 I/O Control Section (Bus Interface Unit)"; ""3.2.5 Internal Buses"; ""3.2.6 System Clocks"; ""3.2.7 Basic Microprocessor Organization"; ""3.3 Microcontrollers"; ""3.3.1 Microcontroller Internal Structure""  
""3.4 Microprocessor-Based and Microcontroller-Based Systems""""3.4.1 Microprocessor-based and Microcontroller-based Digital Systems Design Using Top-Down Technique"; ""3.5 Practical Microcontrollers"; ""3.5.1 AVR ATmega8515 Microcontroller"; ""3.5.2 Intel 8051 Microcontroller"; ""3.6 Summary of the Chapter"; ""3.7 Review Questions"; ""4 Instructions And Instruction Set"; ""4.1 Introduction"; ""4.2 Instruction Format"; ""4.2.1 Expressing Numbers"; ""4.2.2 Basic Instruction Cycle; Execution Path of an Instruction"; ""4.2.3 Clock Cycle and Instruction Cycle"; ""4.2.4 Labels""  
""4.3 Describing the Instruction Cycle: Use of Register Transfer Language (RTL)""

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2. Record Nr.	UNINA9910874671603321
Autore	Cornish Linley
Titolo	(Re)learning as Reflective Practitioners : Insights for Other Professions from Reflective Practice in Teacher Education / / edited by Linley Cornish
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031602115
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (148 pages)
Collana	SpringerBriefs in Education, , 2211-193X
Disciplina	370.711
Soggetti	Teachers - Training of Study skills Career education Teaching and Teacher Education Study and Learning Skills Career Skills
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Thinking about reflection -- Chapter 1 Introduction to the major influences on development of the concept 'reflection' -- Chapter 2 The importance of reflection, Marguerite Jones -- Chapter 3 A general model for developing skills in reflection: Understanding the zone of proximal reflection -- Part 2: Learning to reflect -- Chapter 4: Embedding reflection in coursework (workshop activities, assessment tasks) -- Chapter 5: Using action research and structured feedback to develop reflection -- Part 3: Becoming a reflective practitioner -- Chapter 6: Embedding reflection in professional practice -- Chapter 7: Reflective practice and professional development -- Chapter 8: Reflection and its role in relearning.
Sommario/riassunto	This book examines significant developments in reflective practice, delving into research conducted with novice teachers. It fills a gap in existing literature by examining the 'how' of reflective practice. How do professionals learn reflective practice, fostering relearning? How do they guide students, mentees, and novices in adopting reflective practices? Stemming from teacher education, the focus is extended

beyond this field, emphasizing the relevance of these strategies across professions. It is divided into three parts – thinking about reflection; learning to reflect; and becoming a reflective practitioner. It offers fresh perspectives on conceptualizing reflective practice and suggests practical strategies for integrating it into pre-service coursework, assessment, training, and development. Intended for academics, practitioners, and educators across disciplines, this book serves as a comprehensive guide for anyone committed to fostering reflective practice within their professional sphere.

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