



Microprocessors & Systems Design, M H Hassan, Lightning Source Incorporated, 2008, 0981619436, 9780981619439, 440 pages. This book presents the fundamentals of microprocessors and systems design in an easily understandable approach without the use of unnecessary formalism. It provides a thorough coverage of the 68000 processor architecture, instructions, and applications as well as an introduction to many peripheral interface chips such as DRAM controller, PIA, DMAC, and many others. The main emphasis of the book is practical, providing the necessary detail to enable readers to design actual, working microcomputer systems and interrupt-driven systems. Detailed design examples for a security system, a digital controller, and a digital calculator are provided. It covers hardware and assembly comprehensively in an accessible writing style. It also includes performance objectives and critical thinking questions for every chapter. This textbook is intended for an introductory course in microprocessors and systems for engineering, engineering technology, and computer science students, for self-learning, or as a good reference for engineers and professionals. A complimentary instructors manual is available as a PDF file upon request. About the Author: Michael H. Hassan holds B.S. in Electrical Engineering, M.S. in Electronics Engineering; and M.S. and Ph.D. in Electrical and Computer Engineering from WSU, Michigan, USA. He is a Senior Member of IEEE, member of Sigma Xi, the Scientific Research Society, Tau Beta Pi, the Engineering Honor Society, and Eta Kappa Nu, the Electrical Engineering Honor Society. Dr. Hassan received the IEEE 2009 Outstanding Engineering Educator Award. His teaching and research interests include digital systems theory and design, microcomputer systems, microelectronics and VLSI design, Reconfigurable computing, image processing and vision systems, communication systems and networks, and alternative energy systems. He is the author of many scientific papers and four textbooks including Microprocessors and Systems Design (ISBN 9780981619439), Microprocessors Hardware and Software Design Using MC68000 (ISBN 9780981619408), Digital Electronics with VHDL Design (ISBN 9780981619415), and Fundamentals of Digital Design With VHDL (ISBN 9780981619446)..

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