

# Digital Computer Principles

JENKINS, L

Note: This is not the actual book cover

# Digital Computer Principles An Introductory Course

**Indiana University, Bloomington.  
School of Informatics**



## **Digital Computer Principles An Introductory Course:**

**Digital Computer Principles** Lawrence Jenkins,1987      **University of Michigan Official Publication** University of Michigan,1971 Each number is the catalogue of a specific school or college of the University      **Community College of the**

**Air Force General Catalog** Community College of the Air Force (U.S.),1978      *The University of Michigan-Dearborn*

University of Michigan--Dearborn,1971      **USAF Formal Schools** United States. Department of the Air Force,1986

**USAF Formal Schools** United States. Dept. of the Air Force,1986      **Principles of Modern Digital Design** Parag K. Lala,2007-09-10 PRINCIPLES OF MODERN DIGITAL DESIGN FROM UNDERLYING PRINCIPLES TO IMPLEMENTATION A THOROUGH INTRODUCTION TO DIGITAL LOGIC DESIGN With this book readers discover the connection between logic design principles and theory and the logic design and optimization techniques used in practice Therefore they not only learn how to implement current design techniques but also how these techniques were developed and why they work With a deeper understanding of the underlying principles readers become better problem solvers when faced with new and difficult digital design challenges Principles of Modern Digital Design begins with an examination of number systems and binary code followed by the fundamental concepts of digital logic Next readers advance to combinational logic design Armed with this foundation they are then introduced to VHDL a powerful language used to describe the function of digital circuits and systems All the major topics needed for a thorough understanding of modern digital design are presented including Fundamentals of synchronous sequential circuits and synchronous sequential circuit design Combinational logic design using VHDL Counter design Sequential circuit design using VHDL Asynchronous sequential circuits VHDL based logic design examples are provided throughout the book to illustrate both the underlying principles and practical design applications Each chapter is followed by exercises that enable readers to put their skills into practice by solving realistic digital design problems An accompanying website with Quartus II software enables readers to replicate the book s examples and perform the exercises This book can be used for either a two or one semester course for undergraduate students in electrical and computer engineering and computer science Its thorough explanation of theory coupled with examples and exercises enables both students and practitioners to master and implement modern digital design techniques with confidence      *CIPS Magazine* Canadian Information Processing Society,1971      [Introduction to Digital Electronics](#) Kenneth J. Reid,Robert K. Dueck,2008 The perfect introduction to digital concepts applications and design Digital Design with CPLD Applications uses a logical organization of topics clear explanations and current examples to present key information in a way that is easy to grasp Unique in its approach this book covers combinational and sequential logic circuits using CPLDs while still covering circuit design at the gate level using TTL CMOS devices The book begins by introducing combinational logic including detailed explanations for implementing circuits in Altera Quartus II software and CPLDs The material continues to be presented at the gate level preparing readers to successfully navigate more complicated areas like functional circuits Using

formal problem solving concepts combinational design is then covered which includes a large combinational design that includes the building and simulation of each component marking a valuable departure from traditional books in the field which do not cover large scale design at a combinational level Additional coverage includes sequential circuits with an emphasis on relevant and useful circuits and microprocessor and memory concepts **School of Informatics**

**Undergraduate Program ... Bulletin** Indiana University, Bloomington. School of Informatics,2000 **Undergraduate Announcement** University of Michigan--Dearborn,1972 **International Books in Print** ,1997 News in Engineering ,1966 **Proceedings** ,1970 Proceedings of Conference on Computers in the Undergraduate Curricula ,1970 Adult Catalog: Subjects Los Angeles County Public Library,1970 **American Vocational Journal** ,1969 International Journal of Electrical Engineering Education ,1979 **Books for Occupational Education Programs** Edward Mapp,1971 *1978 Frontiers in Education Conference, October 23-25, 1978* Lawrence P. Grayson,Joseph M. Biedenbach,1978

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