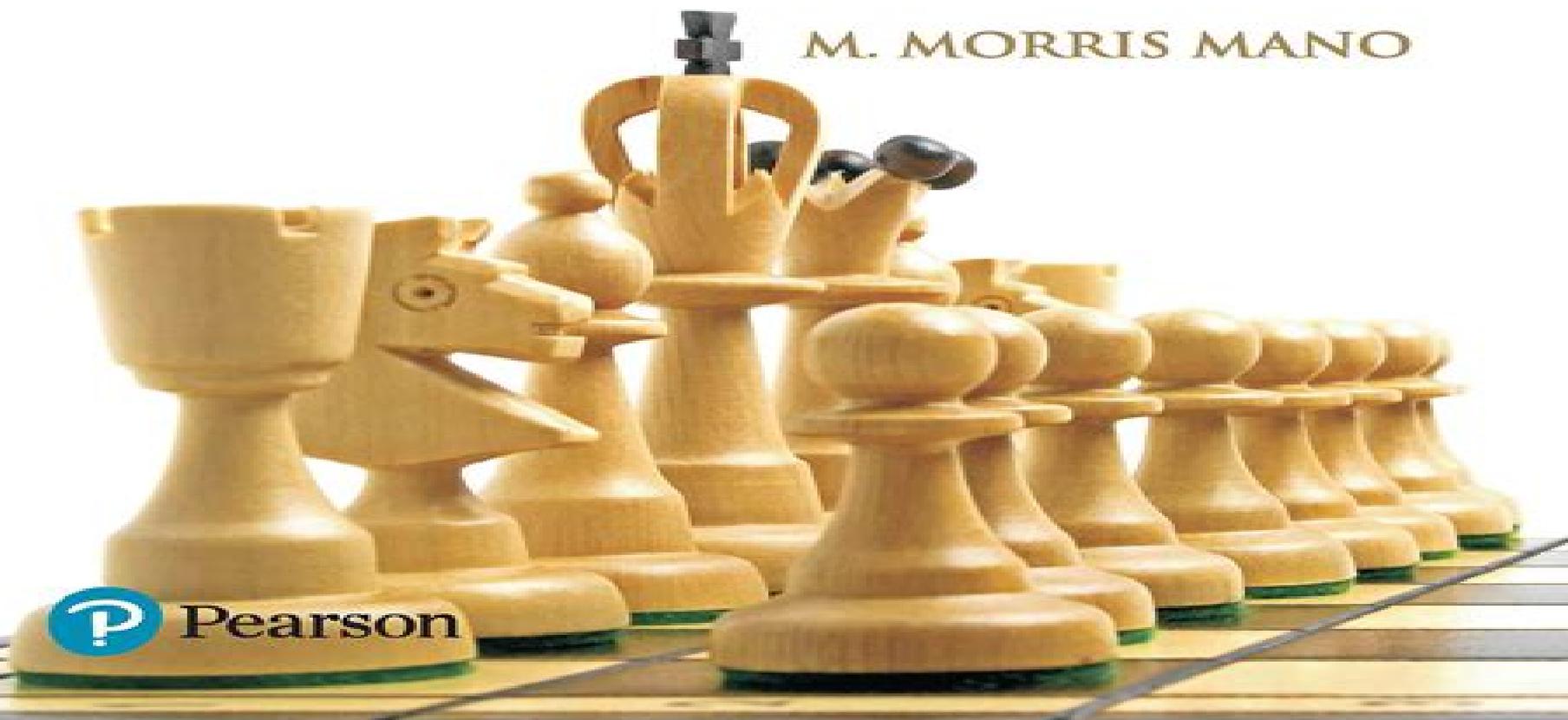


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# DIGITAL LOGIC AND COMPUTER DESIGN

M. MORRIS MANO



Pearson

# Morris Mano Solution Digital Design

**Svetlana N. Yanushkevich, Vlad P.  
Shmerko**



## **Morris Mano Solution Digital Design:**

**Digital Electronics** □ **GATE, PSUS AND ES Examination** Satish K Karna, Test Prep for Digital Electronics GATE PSUS AND ES Examination Digital Logic Design B. Holdsworth, 2014-05-12 Digital Logic Design Second Edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer This book describes the digital design techniques which have become increasingly important Organized into 14 chapters this edition begins with an overview of the essential laws of Boolean algebra K map plotting techniques as well as the simplification of Boolean functions This text then presents the properties and develops the characteristic equations of a number of various types of flip flop Other chapters consider the design of synchronous and asynchronous counters using either discrete flip flops or shift registers This book discusses as well the design and implementation of event driven logic circuits using the NAND sequential equation The final chapter deals with simple coding techniques and the principles of error detection and correction This book is a valuable resource for undergraduate students digital engineers and scientists

**Reversible and DNA Computing** Hafiz M. H. Babu, 2020-11-09 Master the subjects of reversible computing and DNA computing with this expert volume Reversible and DNA Computing offers readers new ideas and technologies in the rapidly developing field of reversible computing World renowned researcher and author Hafiz Md Hasan Babu shows readers the fundamental concepts and ideas necessary to understand reversible computing including reversible circuits reversible fault tolerant circuits and reversible DNA circuits Reversible and DNA Computing contains a practical approach to understanding energy efficient DNA computing In addition to explaining the foundations of reversible circuits the book covers topics including Advanced logic design An introduction to the fundamentals of reversible computing Advanced reversible logic synthesis Reversible fault tolerance Fundamentals of DNA computing Reversible DNA logic synthesis DNA logic design This book is perfect for undergraduate and graduate students in the physical sciences and engineering as well as those working in the field of quantum computing It belongs on the bookshelves of anyone with even a passing interest in nanotechnology energy efficient computing and DNA computing

**Transactions on Engineering Technologies** Gi-Chul Yang, Sio-Iong Ao, Xu Huang, Oscar Castillo, 2014-12-30 This volume contains revised and extended research articles written by prominent researchers who participated in the international conference on Advances in Engineering Technologies which was held in Hong Kong 12-14 March 2014 Topics covered include engineering physics engineering mathematics scientific computing control theory artificial intelligence electrical engineering communications systems and industrial applications The book offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with on engineering technologies and physical science and applications

**Introduction to Logic Design** Svetlana N. Yanushkevich, Vlad P. Shmerko, 2008-01-25 With an abundance of insightful examples problems and computer experiments Introduction to Logic Design provides a

balanced easy to read treatment of the fundamental theory of logic functions and applications to the design of digital devices and systems Requiring no prior knowledge of electrical circuits or electronics it supplies the essential material to understand the basic operation and design of digital systems Satisfying the Requirements of an Introductory Course The text presents a clear picture of basic concepts effective problem solving techniques modern technologies and applications It focuses on the relationships between and the manipulation of various data structures By examining the similarities and differences between assorted theoretical approaches for the representation manipulation and optimization of Boolean functions the authors provide a unified overview of the relationships among digital system design computer organization micro and nanoelectronics and numerical methods The book also describes classical minimization techniques along with advanced and emerging problems of logic design Meeting the Needs of Developing Technology Reflecting the integrated nature of modern engineering this text shows how theoretical ideas physical devices and design methodologies come together to form a successful design approach It provides the basis to explore even more sophisticated aspects in the field *The Art of Digital Design* Franklin P. Prosser, David E. Winkel, 1987 *Hardware Logic Design* New Technical Books New York Public Library, 1986 Subject Guide to Books in Print , 1996 **Books in Print** , 1994 **Computers in Education Journal** , 1993 **The Dhaka University Journal of Science** , 2002 Scientific and Technical Books and Serials in Print , 1984 **Electronic Design** , 1976 Logic and Computer Design Fundamentals M. Morris Mano, Charles R. Kime, 2008 Featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages synthesis and verification this book focuses on the ever evolving applications of basic computer design concepts with strong connections to real world technology Treatment of logic design digital system design and computer design Ideal for self study by engineers and computer scientists **International Journal of Electrical Engineering Education** , 1985 **Computer Books and Serials in Print** , 1985 Proceedings Edwin Ellis, 1990 This volume of proceedings of the 1990 National Educational Computing Conference NECC provides a record of the state of the art in the use of computing in a variety of educational settings Special sessions panels projects 153 abstracts and 44 papers are reported here on subjects including elementary and secondary educational software higher education applications multimedia programs hypermedia ethics computer education administration interactive video computer assisted instruction engineering Logo thinking skills teacher education video based instruction and networks Tables and diagrams accompany some of the entries and each of the papers contains its own list of references An index of authors and other participants is also included DB Engineering Education , 1972 *Computer System Architecture* M. Morris Mano, 1982 Focused primarily on hardware design and organization and the impact of software on the architecture this volume first covers the basic organization design and programming of a simple digital computer then explores the separate functional units in detail FEATURES develops an elementary computer to demonstrate by example the organization and design of digital computers uses a simple register

transfer language to specify various computer operations      **Programming Microprocessor Interfaces for Control and Instrumentation** Michael Andrews, 1982 Analysis of modern programming for microprocessors Describes interfacing techniques coupled with actual programs in assembly language

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