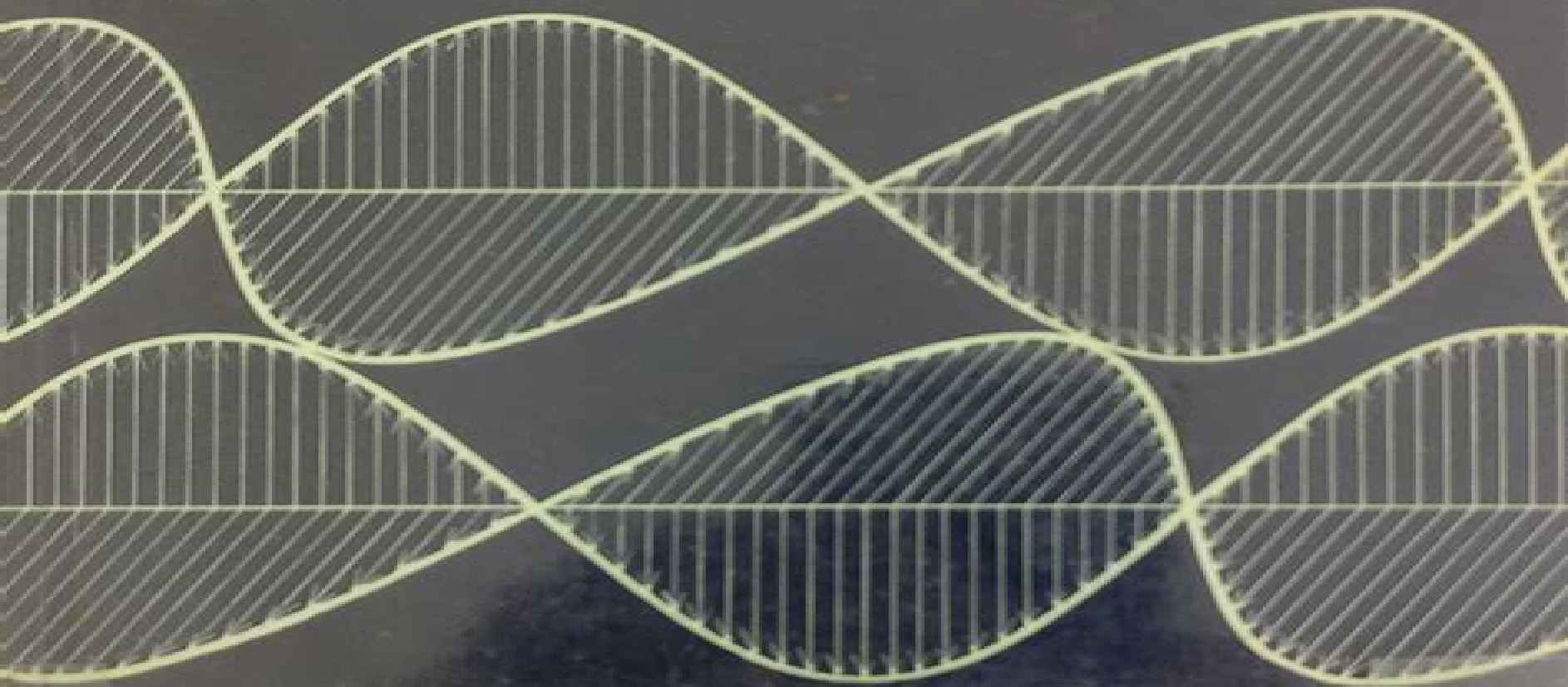


Digital Principles and Applications

ALBERT PAUL MALVINO
DONALD P. LEACH

FOURTH EDITION



McGRAW-HILL INTERNATIONAL EDITIONS
Electrical and Electronic Engineering Series

Digital Principles And Applications By Malvino Leach 6th Edition

Ensheng Dong



Digital Principles And Applications By Malvino Leach 6th Edition:

Computer Fundamentals B. Ram, 2000 ELECTRONICS I. J. NAGRATH, 2013-09-13 The second edition of this book has been updated and enlarged especially the chapters on digital electronics In the analog part several additions have been made wherever necessary Also optical devices and circuits have been introduced Analog electronics spans semiconductors diodes transistors small and large signal amplifiers OPAMPs and their applications Both BJT and JFET and MOSFET are treated parallelly so as to highlight their similarities and dissimilarities for thorough understanding of their parameters and specifications The digital electronics covers logic gates combinational circuits IC families number systems codes adders subtractors flip flops registers and counters Sequential circuits memories and D A and A D convertor circuits are especially stressed Fabrication technology of integrated devices and circuits have also been dealt with Besides many new examples and problems have been added section wise The text is written in simple yet rigorous manner with profusion of illustrative examples as an aid to clear understanding The student can self study several portions of the book with minimal guidance A solution manual is available for the teachers Digital Principles and Applications Albert Paul Malvino, Donald P. Leach, 1981 The Cumulative Book Index , 1988 A world list of books in the English language *Computer Simulated Experiments for Digital Electronics Using Electronics Workbench Multisim* Richard H. Berube, 2004-09 This unique and innovative laboratory manual helps users learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Learners work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback Hands on in approach throughout in both interactive experiments and a series of questions about the results of each experiment it is more cost effective safer and more thorough and efficient than using hardwired experiments This For use with any DC AC text Industrial Education , 1985 *Singapore National Bibliography* , 1989 *School Shop* , 1985 **Computer Simulated Experiments for Digital Electronics Using Electronics Workbench** Richard H. Berube, 1999 COMBINATIONAL LOGIC CIRCUITS 1 Preliminary Concepts 2 Logic Gates INVERTER OR and AND 3 Logic Gates NAND and NOR 4 Boolean Theorems 5 Universality of NAND and NOR Gates 6 Analyzing Combinational Logic Circuits 7 Simplifying Combinational Logic Circuits 8 Logic Simplification Using Karnaugh Maps 9 Designing Combinational Logic Circuits 10 Troubleshooting Combinational Logic Circuits II ARITHMETIC LOGIC CIRCUITS 11 Logic Gates XOR and XNOR 12 Arithmetic Circuits 13 Parallel Binary Adder 14 BCD Adder 15 Parity Generator Checker 16 Magnitude Comparator 17 Troubleshooting Arithmetic Circuits III MSI LOGIC CIRCUITS 18 Decoders and Encoders 19 Multiplexers and Demultiplexers 20 Troubleshooting MSI Logic Circuits IV SEQUENTIAL LOGIC CIRCUITS 21 S R and D Latches 22 Edge triggered Flip Flops 23 Monostable and Astable Multivibrators 24 Registers and Data Storage 25 Asynchronous Counters 26 Synchronous Counters 27 BCD Counters 28 Troubleshooting Sequential Logic Circuits V

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Appendix A IC Chip Pin Diagrams Appendix B Notes on Using Electronics Workbench Bibliography *Pulse and Digital
Circuits* Rao K Venkata, 2010 *Pulse and Digital Circuits* is designed to cater to the needs of undergraduate students of
electronics and communication engineering Written in a lucid student friendly style it covers key topics in the area of pulse
and digital circuits This is an introductory text that discusses the basic concepts involved in the design operation and analysis
of waveshaping circuits The book includes a preliminary chapter that reviews the concepts needed to understand the subject
matter Each concept in the book is accompanied by self explanatory circuit diagrams Interspersed with numerous solved
problems the text presents detailed analysis of key concepts Multivibrators and sweep generators are covered in great detail
in the book *Books in Print Supplement* ,1985 **National Union Catalog** ,1978 Includes entries for maps and atlases
Engineering Education ,1969 *American Journal of Physics* ,2002 Scientific and Technical Books and Serials in
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