



# FUNDAMENTALS OF DIGITAL CIRCUITS

By A. ANAND KUMAR

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## FUNDAMENTALS OF DIGITAL CIRCUITS By A. ANAND KUMAR

The third edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. Now, based on the readers' demand, this new edition incorporates VHDL programs at the end of each chapter. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students.

Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

As the book requires only an elementary knowledge of electronics to understand most of the topics, it can also serve as a textbook for the students of polytechnics, B.Sc. (Electronics) and B.Sc. (Computer Science).

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#### About the Author

A. Anand Kumar , Ph.D., is Principal of K.L. University College of Engineering, K.L. University, Green Fields, Vaddeswaram, Andhra Pradesh, India. From 2006 to 2011 he served as Director, Sasi Institute of Technology and Engineering, Tadepalligudem, Andhra Pradesh, India. From 2000 to 2006, he served as Principal of Sir C.R. Reddy College of Engineering, Eluru, West Godavari District, Andhra Pradesh, India and from 1983 to 2000 as Professor at S.D.M. College of Engineering and Technology, Dharwad, Karnataka, India. He has nearly four decades of teaching experience. His research interests include radar signal processing.

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