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ELECTRONIC DEVICES AND CIRCUITS - I. J. NAGRATH - 2007-09-13
Designed specifically for undergraduate students of Electronics and Electrical Engineering and its related disciplines, this book offers an excellent coverage of all essential topics and provides a solid foundation for analysing electronic circuits. It covers the course named Electronic Devices and Circuits of various universities. The book will also be useful to diploma students, AMIE students, and those pursuing courses in B.Sc. (Electronics) and M.Sc. (Physics). The students are thoroughly introduced to the full spectrum of fundamental topics beginning with the theory of semiconductors and p-n junction behaviour. The devices treated include diodes, transistors—BJTs, JFETs and MOSFETs—and thyristors. The circuitry covered comprises small signal (ac), power amplifiers, oscillators, and operational amplifiers including many important applications of those versatile devices. A separate chapter on IC fabrication technology is provided to give an idea of the technologies being used in this area. There are a variety of solved examples and applications for conceptual understanding. Problems at the end of each chapter are provided to test, reinforce and enhance learning.

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Integrated circuits (ICs) don't always work the first time. Many things can and do go wrong in analog circuit designs. There are a number of common errors that often require costly chip redesign and refabrication, all of which can be avoided when designers are aware of the pitfalls. To realize success, IC designers need a complete toolbox-a toolbox filled not only with a solid background in electronics, design concepts and analysis skills, but also with the most valuable tool of all: experience. Analog BiCMOS Design offers IC design engineers the learning equivalent to decades of practical experience. Culled from the careers of practicing engineers, it presents the most effective methods and the pitfalls most frequently encountered in the design of biCMOS integrated circuits. Accessible to anyone who has taken a course in electronics, this book covers the basic design of bandgap voltage references, current mirrors, amplifiers, and comparators. It reviews common design errors often overlooked and offers design techniques used to remedy those problems. With its complete coverage of basic circuit building blocks, full details of common design pitfalls, and a compendium of design and layout problems and solutions, Analog BiCMOS Design is the perfect reference for IC designers and engineers, fledgling and experienced alike. Read it to reinforce your background, browse it for ideas on avoiding pitfalls, and when you run into a problem, use it to find a solution.

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