

# Linear Integrated Circuits By Ramakant

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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

this book provides an overview of emerging semiconductor devices and their applications in electronic circuits which form the foundation of electronic devices device circuit co design issues in fets provides readers with a better understanding of the ever growing field of low power electronic devices and their applications in the wireless biosensing and circuit domains the book brings researchers and engineers from various disciplines of the vlsi domain together to tackle the emerging challenges in the field of engineering and applications of advanced low power devices in an effort to improve the performance of these technologies the chapters examine the challenges and scope of finfet device circuits 3d fets and advanced fet for circuit applications the book also discusses low power memory design neuromorphic computing and issues related to thermal reliability the authors provide a good understanding of device physics and circuits and discuss transistors based on the new channel dielectric materials and device architectures to achieve low power dissipation and ultra high switching speeds to fulfill the requirements of the semiconductor industry this book is intended for students researchers and professionals in the field of semiconductor devices and nanodevices as well as those working on device circuit co design issues

this accurate and easy to understand book presents readers with the basic principles of operational amplifiers and integrated circuits with a very practical approach a large number of examples questions problems and practical circuit applications make it a valuable reference guide chapter topics include an introduction to frequency response and negative feedback of op amps along with interpretation of data sheets and characteristics also covered are active filters and oscillators comparators and converters specialized ic applications and system projects for professional design engineers technologists and technicians with self study interests who need the ability to adapt to changing technology as new devices appear on the market

a systematic presentation of the basic principles of digital and analog electronics that includes the electrical engineering and physics background necessary for independent applications uses elementary concepts such as boolean algebra thevenin s theorem kirchhoff s laws and the rotational operator to show the roots of the properties discussed digital and analog electronics are covered independently with a parallel set of laboratory exercises to give coherence to the material and to illustrate the practical aspects of making and using electronic circuits they are then brought together in the later chapters on analog digital conversion the general properties of electrical circuit theory solid state electronic devices electrical amplifiers and feedback circuits are developed and applied throughout the text also explores the architecture of microprocessors through an arithmetic algorithm and discusses the many arithmetic number systems used in computers

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