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the importance of electrical circuit analysis is well known in the various engineering fields the book provides comprehensive

coverage of mesh and node analysis various network theorems analysis of first and second order networks using time and laplace domain steady state analysis of a c circuits coupled circuits and dot conventions network functions resonance and two port network parameters the book starts with explaining the network simplification techniques including mesh analysis node analysis and source shifting then the book explains the various network theorems and concept of duality the book also covers the solution of first and second order networks in time domain the sinusoidal steady state analysis of electrical circuits is also explained in the book the book incorporates the discussion of coupled circuits and dot conventions the laplace transform plays an important role in the network analysis the chapter on laplace transform includes properties of laplace transform and its application in the network analysis the book includes the discussion of network functions of one and two port networks the book incorporates the detailed discussion of resonant circuits the book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity it also derives the interrelationships between the two port network parameters the book uses plain and lucid language to explain each topic each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections the book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy the variety of solved examples is the feature of this book the book explains the philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting

the foremost and primary aim of the book is to meant the requirements of students of anna university bharathidasan university mumbai university as well as b e b sc of all other indian universities

supports the schemes of work in the science curriculum at key stage 2 illustrated with colour photographs and diagrams this series is designed to encourage investigative skills and covers a range of living things materials and phenomena

the book covers all the aspects of theory analysis and design of electronic circuits for the undergraduate course it provides all the essential information required to understand the operation and perform the analysis and design of a wide range of electronic circuits including mosfet as a switching and amplifier circuits feedback amplifiers oscillators voltage regulators operational amplifiers and its applications dac adc and phase locked loop the book is divided into four parts the first part focuses on the fundamental concepts of mosfet mosfet construction characteristics and circuits as a switch as a resistor

diode as an amplifier and current sink and source circuits the second part focuses on the analysis of voltage series and current series feedback amplifiers it also explains the barkhausen criterion for oscillation and incorporates the detailed analysis of wien bridge and phase shift oscillators the third part is dedicated to the basics of op amp and a discussion of a variety of its applications the fourth part focuses on the v to i and i to v converters dac and adc and phase locked loop the book uses straightforward and lucid language to explain each topic the book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy the variety of solved examples is the feature of this book the book explains the subject s philosophy which makes understanding the concepts evident and makes the subject more interesting

kularatna s new book describes modern component families and how to design circuit blocks using them while much of this information may be available elsewhere in modern component families and circuit block design it is integrated with additional design hints that are unique the discussion covers most components necessary in an embedded design or a dsp based real time system design the chapter on modern semi conductor sensors allows system designers to use the latest sensor ics for real world physical parameter sensing covers the most recent low power components written by an authority on power electronics includes extensive illustrations and references

the objective of the book is to introduce and bring together well known circuit design aspects as well as to cover up to date outcomes of theoretical studies in decision making biologically inspired and artificial intelligent learning techniques provided by publisher

this is the ebook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book electronic devices and circuit theory eleventh edition offers a complete comprehensive survey focusing on all the essentials you will need to succeed on the job setting the standard for nearly 30 years this highly accurate text is supported by strong pedagogy and content that is ideal for new students of this rapidly changing field the colorful layout with ample photographs and examples helps you better understand important topics this text is an excellent reference work for anyone involved with electronic devices and other circuitry applications such as electrical and technical engineers

a step by step guide to working with programs that exploit quantum computing principles with the help of ibm quantum qiskit and python key features understand the difference between classical computers and quantum computers work with key quantum computational principles such as superposition interference and entanglement and observe how they are leveraged on the ibm quantum systems run your own quantum experiments and applications by integrating with qiskit and python book descriptionthe ibm quantum platform was built to enable developers to learn the basics of quantum computing by providing access to high performant quantum computers and provide documentation and courses to help get up to speed with the latest features in quantum computing updated with new examples and changes to the platform this edition begins with an introduction to the ibm quantum platform and the quantum information science kit qiskit sdk you will become well versed in the ibm quantum composer interface as well as running your quantum circuits on a real quantum computer along the way you ll learn some of the fundamental principles regarding quantum mechanics qubits quantum gates quantum circuits and the error mitigation techniques that are used to perform operations on qubits as you build on your knowledge you ll understand the functionality of ibm qiskit and the developer focused resources so you can create your own quantum algorithms you ll learn how to monitor and optimize your quantum circuits lastly you ll look at the fundamental quantum algorithms and understand how they can be applied effectively by the end of this quantum computing book you ll know how to build quantum algorithms and will have gained a practical understanding of quantum computation that you can apply to your research or business what you will learn get familiar with the features within the ibm quantum platform create and visualize quantum gates and circuits operate quantum gates on qubits using the ibm quantum composer install and run your quantum circuits on an ibm quantum computer discover qiskit and its many features such as the qiskit runtime get to grips with fundamental quantum algorithms and error mitigation techniques to help you get started understand the new era of quantum utility and how this moves us closer towards quantum advantage who this book is for this book is for python developers who are looking to learn quantum computing from the ground up and put their knowledge to use in practical situations with the help of the ibm quantum platform and qiskit some background in computer science and high school level physics and math is required

provides an introduction to the theory design and analysis of electrical circuits covers direct and alternating current capacitance inductance magnetism simple transients transformers fourier series methods of analysis and more conceptual

material is supported by illustrations and diagrams as well as step by step examples exercises and hands on activities

one of publishers weekly's top 10 business economics books a fascinating inside look at who's watching you what they know and why it matters kirkus reviews a new york times bestseller in dragnet nation award winning investigative journalist julia angwin reports from the front lines of america's surveillance economy offering a revelatory and unsettling look at how the government private companies and even criminals use technology to indiscriminately sweep up vast amounts of our personal data in a world where we can be watched in our own homes where we can no longer keep secrets and where we can be impersonated financially manipulated or even placed in a police lineup angwin argues that the greatest long term danger is that we start to internalize the surveillance and censor our words and thoughts until we lose the very freedom that makes us unique individuals appalled at such a prospect angwin conducts a series of experiments to try to protect herself ranging from quitting google to carrying a burner phone showing how difficult it is for an average citizen to resist the dragnets reach her book is a cautionary tale for all of us with profound implications for our values our society and our very selves draws on conversations with researchers hackers and it experts surveying the modern dragnet tracking made possible by massive computing power smaller devices and cheap storage of data kirkus reviews a useful well reported study los angeles times informative conversational a helpful guide for readers seeking non jargony information on minimizing their digital footprints columbia journalism review angwin a longtime reporter on digital privacy issues for the wall street journal releases the contemporary and unfortunately nonfiction companion book to orwell's 1984 dragnet nation examines the surveillance economy and its effect on free speech and thought likely causing readers to rethink the next words they type into a search engine la weekly

this basic undergraduate text deals with the principal areas of electrical engineering theory ranging from simple resistive circuits to fourier and transient analysis the book begins with a study of elements and laws and progresses through dc circuit analysis after a study of sinusoidal analysis the reader is shown how these theorems and techniques can be applied to ac circuits each chapter is fully supported by numerous worked examples and unworked problems with solutions a chapter is devoted to the use of spice software for the solution of application problems this book is designed to be of interest to undergraduate and hnc hnd students of electronic and electrical engineering

this book deals with key aspects of design of digital electronic circuits for different families of elementary electronic devices implementation of both simple and complex logic circuits are considered in detail with special attention paid to the design of digital systems based on complementary metal oxide semiconductor cmos and pass transistor logic ptl technologies acceptable for use in planar microelectronics technology it is written for students in electronics and microelectronics with exercises and solutions provided related link s

the book covers all the aspects of theory analysis and design of electron devices and circuits for the undergraduate course the concepts of p n junction devices bjt jfet mosfet electronic devices including ujt thyristors igtb amplifier circuits bjt jfet and mosfet amplifiers multistage and differential amplifiers feedback amplifiers and oscillators are explained comprehensively the book explains various p n junction devices including diode led laser diode zener diode and zener diode regulator the different types of rectifiers are explained in support the book covers the construction operation and characteristics of bjt jfet mosfet ujt thyristors scr diac and triac and igtb it explains the biasing of bjt jfet and mosfet amplifiers basic bjt jfet and mosfet amplifiers with h parameters and r parameters equivalent circuits multistage amplifiers differential amplifiers bicmos amplifier single tuned amplifiers neutralization methods power amplifiers and frequency response finally the book incorporates a detailed discussion of the analysis of the current series voltage series current shunt and voltage shunt feedback amplifiers the book also includes the discussion of the barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits including rc phase shift wien bridge hartley colpitt s clapp and crystal oscillators the book uses straightforward and lucid language to explain each topic the book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy the variety of solved examples is the feature of this book the book explains the subject s philosophy which makes understanding the concepts evident and makes the subject more interesting

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this textbook provides a detailed study of continuous and discrete time signals and systems at a theoretical as well as a practical level for undergraduate as well as graduate students the book follows a didactic approach allowing the students to acquire a solid knowledge and skill required for the study of more advanced subjects such as telecommunications as well as automatic control systems the detailed presentation of the theory in this book is accompanied by many examples as well as hundreds of solved and unsolved exercises that help the reader to gain immediately a deep understanding of the presented material and the way it is used in practice because of the mathematical complexity associated with the presented material this book requires a good knowledge of basic concepts from linear algebra and mathematical analysis such as for example elements of matrix theory the concepts of the derivative and the integral as well as the knowledge of the main aspects associated with differential and difference equations for the continuous and the discrete time domain respectively special emphasis should also be given to well known techniques that allow the estimation of the inverse transforms such as polynomial division partial fractions expansion as well as the methods of residues for the estimation of integrals of complex functions

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this book provides detailed fundamental treatment of the underlying physics and operational characteristics of most commonly used semi conductor devices covering diodes and bipolar transistors opto electronic devices junction field effect transistors and mos transistors in addition basic circuits utilising diodes bipolar transistors and field effect transistors are described and examples are presented which give a good idea of typical performance parameters and the associated waveforms a brief history of semiconductor devices is included so that the student develops an appreciation of the major technological strides that have made today s ic technology possible important concepts are brought out in a simple and lucid manner rather than simply stating them as facts numerical examples are included to illustrate the concepts and also to make

the student aware of the typical magnitudes of physical quantities encountered in practical electronic circuits wherever possible simulation results are included in order to present a realistic picture of device operation fundamental concepts like biasing small signal models amplifier operation and logic circuits are explained review questions and problems are included at the end of each chapter to help students test their understanding the book is designed for a first course on semiconductor devices and basic electronic circuits for the undergraduate students of electrical and electronics engineering as well as for the students of related branches such as electronics and communication electronics and instrumentation computer science and engineering and information technology

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