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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 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

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

the book covers all the aspects of theory analysis and design of electronic circuits for the undergraduate course the concepts of biasing of bjt jfet mosfet along with the analysis of bjt fet and mosfet amplifiers are explained comprehensively the frequency response of amplifiers is explained in support the detailed essential of rectifiers filters and power supplies are also incorporated in the book the book covers biasing of bjt jfet and mosfet and analysis of basic bjt jfet and mosfet amplifiers with hybrid π

equivalent circuits it also includes the darlington amplifier discussion amplifiers using bootstrap technique multistage amplifiers differential amplifiers and bicmos cascade amplifier the in depth analysis of the frequency response of various amplifiers is also included in the book finally the book covers all the aspects of rectifiers types of filters linear regulators power supplies and switching regulators 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

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

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 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

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

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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

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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

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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 igbt 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 igbt 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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