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this book electronic devices and circuit application is the first of four books of a larger work fundamentals of electronics it is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics operational amplifiers semiconductor diodes bipolar junction transistors and field effect transistors attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level the difference between linear and non linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types fundamentals of electronics has been designed primarily for use in an upper division course in electronics for electrical engineering students typically such a course spans a full academic years consisting of two semesters or three quarters as such electronic devices and circuit applications and the following two books amplifiers analysis and design and active filters and amplifier frequency response form an appropriate body of material for such a course secondary applications include the use in a one semester electronics course for engineers or as a reference for practicing engineers

this text provides optional computer analysis exercises in selected examples troubleshooting sections applications assignments it uses frank explanations limits maths to only what s needed for understanding electric circuits fundamentals

this book provides an exceptionally clear introduction to dc ac circuits supported by superior exercises examples and illustrations and an emphasis on troubleshooting and applications it features an exciting full color format which uses color to enhance the instructional value of photographs illustrations tables charts and graphs throughout the book s coverage the use of mathematics is limited to only those concepts that are needed for understanding floyd s acclaimed troubleshooting emphasis as always provides learners with the problem solving experience they need for a successful career in electronics chapter topics cover components quantities and units voltage current and resistance ohm s law energy and power series circuits parallel circuits series parallel circuits

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through detailed explanations and mathematics accessible to technology level readers this book establishes methods for analyzing modeling and predicting performance of op amps and linear integrated circuits key topics it includes the common circuit configurations and devices to be used with these circuits also includes oscillators and waveform generators analog to digital and digital to analog conversion computer software analysis operational amplifier dc effects and limitations and more

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an integrated practical introduction to 16 bit and 32 bit microprocessors using the motorola 68000 family as examples for electronics engineering computer science and technology students

this book is based upon the principle that an understanding of devices and circuits is most easily achieved by learning how to design circuits the text is intended to provide clear explanations of the operation of all important electronics devices generally available today and to show how each device is used in appropriate circuits circuit design and analysis methods are also treated using currently available devices and standard value components all circuits can be laboratory tested to check the authenticity of the design process coverage includes diodes bjts fets

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