

Introduction To Modern Electronics By Faissler William L

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offers a complete grounding in the principles and techniques of modern electronics designed to provide even beginning students with the knowledge and skills necessary for building useful and interesting circuits either in a laboratory situation or on their own concentrates on techniques and devices currently used in modern equipment and special attention is paid to the basic ideas and techniques used with important types of circuits a substantial portion of the book is devoted to explaining the vocabulary and information presented in data sheets for these circuits by instructing students in these techniques and familiarizing them with the ins and outs of electronic literature it provides a sound introduction to the field and a means of keeping up with its extremely rapid changes

this reader friendly survey focuses on innovations of the past 40 years including computers integrated circuits the internet cell phones gps optical fibers and more engaging mildly technical authoritative treatment 2013 edition

problems after each chapter

unfriendly to conventional electronic devices circuits and systems extreme environments represent a serious challenge to designers and mission architects the first truly comprehensive guide to this specialized field extreme environment electronics explains the essential aspects of designing and using devices circuits and electronic systems intended to operate in extreme environments including across wide temperature ranges and in radiation intense scenarios such as space the definitive guide to extreme environment electronics featuring contributions by some of the world's foremost experts in extreme environment electronics the book provides in depth information on a wide array of topics it begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies it also discusses reliability issues and failure mechanisms that readers need to be aware of as well as best practices for the design of these electronics continuing beyond just the paper design of building blocks the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments the final set of chapters describes actual chip level designs for applications in energy and space exploration requiring only a basic background in electronics the book combines theoretical and practical aspects in each self contained chapter appendices supply additional background material with its broad coverage and depth and the expertise of the contributing authors this is an invaluable reference for engineers scientists and technical managers as well as researchers and graduate students a hands on resource it explores what is required to successfully operate electronics in the most demanding conditions

table of contents introduction to electronics what is electronics history of electronics importance of electronics in modern life overview of basic components basic electrical concepts voltage current and resistance ohm's law power and energy series and parallel circuits alternating current ac vs direct current dc components of electronics resistors capacitors inductors diodes transistors integrated circuits ics potentiometers transformers sensors fundamental circuit theory kirchhoff's laws thevenin's and norton's theorems impedance and reactance rl rc and rlc circuits ac circuits and phasor analysis power electronics power generation power converters rectifiers inverters and dc/dc converters power amplifiers energy storage devices capacitors and batteries digital electronics binary system and logic gates combinational logic circuits flip flops and sequential circuits multiplexers demultiplexers and encoders counters and registers introduction to microcontrollers and microprocessors analog electronics amplifiers and operational amplifiers op amps oscillators and signal generators filters low pass high pass band pass analog to digital and digital to analog conversion circuit design and simulation basic circuit design principles schematic design and layout using simulation software e.g. spice

prototyping on breadboards printed circuit board pcb design soldering and assembly techniques tools needed for soldering soldering components to a board troubleshooting techniques testing and calibration of circuits advanced topics in electronics radio frequency rf electronics communication systems am fm digital communication semiconductor materials and physics quantum electronics optoelectronics leds photodiodes and lasers vlsi and nanotechnology practical applications of electronics consumer electronics smartphones tvs and home appliances medical electronics ecg eeg and imaging systems automotive electronics industrial electronics robotics and automation renewable energy systems solar wind the future of electronics emerging technologies in electronics artificial intelligence and machine learning in electronics the internet of things iot wearable electronics sustainable electronics

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