

Electronica Digital Y Microprogramable

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su objetivo es formar a profesionales que puedan idear pequeñas aplicaciones electrónicas

aquesta obra fa un recorregut per les matèries fonamentals de l'electrònica digital basant-se en el contingut del mòdul del mateix nom del cicle formatiu de desenvolupament de productes electrònics estó especialment indicada per alumnes i professors d'aquest cicle per a cursos de reciclatge en empreses podent també resultar interessant en els estudis de certes especialitats d'enginyeria i en general per a tot aquell interessat en l'electrònica digital l

estructura del llibre consta de dues parts la primera es dedica a l'electrònica digital cablejada i la segona a l'electrònica digital programable la unitat 1 inicia al lector en la necessitat de l'electrònica digital i de la seva existència obrint les bases de la lògica digital les unitats 2 a 8 desenvolupen l'electrònica digital cablejada proporcionant al lector els coneixements necessaris per a realitzar petites aplicacions simulades a través de mitjans informàtics i inclou amb la possibilitat de realitzar les amb uns mínims mitjans de forma real aquestes desenvolupen l'aplicació orcad per al disseny i simulació electrònics recolzant-se per les diferents tutorials que es subministren en el disc adjunt les unitats 9 a 12 tracten de l'electrònica programable la unitat 9 inicia al lector en el món de la programació a través de les memòries electròniques i els dispositius lògics programables les tres últimes unitats es refereixen a l'electrònica basada en dispositius microprogramables centrant-se en els microcontroladors i en particular en el pic16f84a que disposa d'eines de programació i simulació proporcionades pel fabricant i del qual es desenvolupen diferents aplicacions pràctiques aquest llibre disposa de tutorials del orcad capture orcad pspice i del mplab per a una millor utilització dels recursos informàtics va acompanyat d'un cd amb aplicacions informàtiques de lliure distribució en versió de demostració o facilitades de manera gratuïta pel fabricant fulls de característiques necessàries per realitzar els diferents exercicis i aplicacions pràctiques proposats i les solucions dels exercicis d'autoavaluació plantejats a cada un dels capítols

forma profesionales para el mantenimiento de equipos de sonido receptores de tv equipos microinformáticos etc

capacita a los alumnos para que puedan programar organizar y colaborar en el proceso de mecanizado y en la producción y montaje de equipos mecánicos

el contenido de esta obra abarca desde los conceptos básicos de la electrónica digital hasta los microcontroladores tanto en el aspecto teórico como en el práctico la parte teórica se ha intentado simplificar y exponer de forma coloquial y se ha prestado una especial atención a la parte práctica basada en una extensa colección de experiencias realistas desarrolladas sobre un equipo didáctico de extraordinarias prestaciones si bien se dan otras opciones para poderlas implementar e incluso realizarlas en ordenador con un programa simulador el libro se complementa con un cd en donde se pueden hallar ampliaciones de los temas teóricos y nuevas propuestas de prácticas para temas especiales como plc

este libro esta dirigido a los estudiantes de las carreras en ingenieria electrica y electronica y en ingenieria mecatronica aunque tambien resultara util para los estudiantes de otras ingenierias que quieran ampliar sus conocimientos ya que trata los temas mas importantes y fundamentales de la electronica digital los conceptos se explican en cada capitulo de forma practica y con muchos ejemplos son los siguientes los sistemas y codigos de numeracion el

algebra de boole las tablas de verdad las puertas logicas y su simbologia las distintas tecnologias de fabricacion de los circuitos digitales ttl ecl cmos dtl rtl htl los bloques funcionales combinacionales los sistemas secuenciales la aritmetica en los codigos binarios los circuitos electronicos de conversion a d y d a los osciladores digitales los sistemas combinacionales universales programables los microprocesadores y dispositivos perifericos las medidas en electronica digital y los diagnosticos de averias ademas incluye las ultimas novedades en este campo como el circulo de verdad de gran utilidad en los sistemas combinacionales y secuenciales y el metodo de luque de simplificacion de funciones logicas en definitiva esta obra se ha desarrollado con el objetivo de proporcionar un buen material didactico practico para asignaturas relacionadas con la electronica digital pero tambien puede ser utilizado como libro de consulta y de aprendizaje autodidacta por cualquier persona

programacion didactica electronica digital

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