

Logic And Computer Design Fundamentals 4th Edition

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featuring a strong emphasis on the fundamentals underlying contemporary logic design using hardware description languages synthesis and verification this book focuses on the ever evolving applications of basic

computer design concepts with strong connections to real world technology

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 for courses in logic and computer design understanding logic and computer design for all audiences logic and computer design fundamentals is a thoroughly up to date text that makes logic design digital system design and computer design available to readers of all levels the fifth edition brings this widely recognized source to modern standards by ensuring that all information is relevant and contemporary the material focuses on industry trends and successfully bridges the gap between the much higher levels of abstraction people in the field must work with today than in the past broadly covering logic and computer design logic and computer design fundamentals is a flexibly organized source material that allows instructors to tailor its use to a wide range of audiences

this one of a kind book is the first to teach traditional design principles in the context of computer design it covers timeless design fundamentals including form space and color and explains them with respect to today s computer technology copyright libri gmbh all rights reserved

2 e this book describes principles methods and tools that are common to computer applications for design tasks cad is considered in this book as a discipline that provides the required know how in computer hardware and software in systems analysis and in engineering methodology for specifying designing implementing introducing and using computer based systems for design purposes the first chapter gives an impression of the book as a whole and following chapters deal with the history and the components of cad the process aspect of cad cad architecture graphical devices and systems cad engineering methods cad data transfer and application examples the flood of new developments in the field and the success of the first edition of this book have led the authors to prepare this completely revised updated and extended second edition extensive new material is included on computer graphics implementation methodology and cad data transfer the material on graphics standards is updated the book is aimed primarily at engineers who design or install cad systems it is also intended for students who seek a broad fundamental background in cad

4 lation and optimization these are essential constituents of the iterative process leading to a feasible and one hopes optimal design 1 3 content of the book in chapter 2 we present briefly the history of cad the main components of cad systems are identified and their principal functions described economic and interdisciplinary aspects are discussed chapter 3 starts with a systems analysis of the design process the notion of a process is introduced as a fundamental tool to describe activities like design as a whole computer aided design program executions terminal sessions etc the environment and the resources which the environment must supply for the successful execution of any process are discussed the problem of modelling the design objects in an abstract schema and the interrelation between the schema and the planning of the individual

step in the design are analysed chapter 4 concentrates on the interfaces among the components of a cad system including the human operator the problem of mapping an abstract schema onto the capabilities of various programming command or data de scription languages is described in detail emphasis is laid upon the resource aspect and its influence on the design of cad systems the concept of a cad software machine is introduced and rules for designing such machines are given

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computer uses and application number systems arithmetic operations codes switching algebra and logic gates functional logic subunits computer architecture and programming arithmetic units memory data input output and channels the control unit design of a small digital computer

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