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Cadence
Orcad Guide

Used
collectively,
PSPICE and
MATLAB are
unsurpassed
for circuit
modeling and
data analysis.

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PSPICE can perform DC, AC, transient, Fourier, temperature, and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits.

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MATLAB can then carry out calculations of device parameters, curve fitting, numerical integration, nume

Si desea
aprender a
simular

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circuitos
electrónicos y
asentar sus
conocimientos
de electrónica
mediante
ejemplos
prácticos de
simulación, ha
dado con el
libro
indicado. En

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esta segunda edición del libro Simulación de circuitos electrónicos con OrCAD® PSpice® se proporciona una detallada revisión y ampliación de

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los contenidos, así como una actualización a la versión 17.2 LITE. Los distintos temas abarcan desde los conceptos de simulación en la electrónica

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básica hasta aspectos más complejos de electrónica aplicada. Con un programa como el OrCAD PSpice, la simulación es una herramienta que contribuye

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a comprender
de forma
experimental
cómo funcionan
los circuitos.
Se obtienen
unos
resultados que
permiten
corregir los
diseños, tanto
de los

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ejercicios de
teoría como de
los trabajos
de
laboratorio.
En el capítulo
1 se presenta
la simulación
desde el punto
de vista del
diseño en la
ingeniería

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orientada al
producto, y en
el capítulo 2
se introduce
el paquete
OrCAD 17.2
LITE, además
de una
descripción de
sus programas,
instalación y
principales ca

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racterísticas.
El capítulo 3
se dedica a la
simulación de
los sistemas
digitales,
desde los
circuitos comb
inacionales
hasta los micr
oprogramados,
pasando por el

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diseño

jerárquico y
la generación
de estímulos.

En el capítulo
4 se simulan
circuitos
analógicos,
donde se
incluyen
distintas
clases de

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dispositivos,
así como
amplificadores
operacionales,
y se realizan
los diferentes
tipos de
análisis. Los
capítulos 5, 6
y 7 se
dedican, respe
ctivamente, al

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modelado y la
simulación
mediante
comandos de
PSpice.

También a la
creación de
componentes
nuevos, y a
los análisis
avanzados,
como son el de

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Monte Carlo o el del Peor Caso, entre otros. El capítulo 8 se ocupa de los circuitos mixtos analógicos y digitales, como son los convertidores

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A/D y D/A, y otros ejemplos que combinan los distintos dominios de datos analógicos, digitales o temporales. En el capítulo 9 se simulan sensores y

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circuitos de a
condicionamien
to tomando
como ejemplo
distintos
tipos de
sensores.

Finalmente, el
capítulo 10 se
centra en la
simulación de
circuitos de

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potencia,
donde se
incluyen los
dispositivos
de potencia,
las
inductancias y
los transforma
dores, los
reguladores,
etc. Aprender
a simular

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circuitos
electrónicos
de un modo
práctico y
sencillo está
a su alcance.
No espere más,
hágase ya con
su ejemplar y
explote todo
su potencial.
The Ultimate

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AndroiDAQ

Guide is an in-
depth look
into the
techniques of
data
acquisition
and process
control, using
the parallel
processing mic
ro-controller

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on the
AndroidAQ
module. It
teaches you
sensing and
electronic
drive
circuits, and
how to
implement
these circuits
in programming

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languages like
Android,
LabVIEW, Java,
and Python.

The book also
shows you how
to leverage
and use the
menu command
structure used
in the

AndroidAQ open

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source

firmware, for the many data acquisition tasks that are used in robotic and product design. Many examples are given to allow you to control

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your AndroidAQ
module in ways
other popular
development
modules can
not, via USB,
Bluetooth, or
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communication.
It is a guide
to help you
make your next

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project be
part of the
Internet of
Things.

Complete PCB
Design Using
OrCAD Capture
and

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Using OrCAD
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Converters,
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Creación de
Nuevos
Componentes
para ORCAD
10.3

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Memristor
Networks
PSPICE and
MATLAB for
Electronics

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VHDL (VHSIC
Hardware
Description

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Language).

.....

.....

.....

.....

.....

.....

VHDL

.....:

ModelSim (Mentor

Graphics), **Active**

HDL (Aldec),

OrCAD (Cadence),

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It is a comprehensive guide to the Cadence Orcad software, covering the basics of the tool and the advanced features. The book is written in a clear and concise style, making it easy to read and understand. It is a valuable resource for anyone who is interested in learning about the Cadence Orcad software.

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- Getting started with Cadence Orcad
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- Working with VHDL in Cadence Orcad
- Using the Cadence Orcad libraries
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- Using the Cadence Orcad synthesis engine
- Using the Cadence Orcad layout engine
- Using the Cadence Orcad verification engine

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FREE PCB

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SOFTWARE! The EagleCAD light software inside does all the tasks described in this book -- schematic capture, layout, and autorouting. Run it on Windows or Linux. DESIGN TO PRODUCTION -- EVERYTHING YOU NEED TO MAKE

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\$10,000 to
\$15,000!) STEP-BY-
STEP
DIRECTIONS, AND
A PRACTICE
RUNTHROUGH
Written by a PCB
designer and
electronics expert,
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Printed Circuit
Board gives you
absolutely

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everything you need to design and construct a professional-looking prototype or production-ready PCB files with modern CAD tools.

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generating CAM
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board yourself or
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The Standard
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has served the EE
field for nearly a
century. Originally
published in 1907,
through 14 previous

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editions it has been a required resource for students and professionals. This new 15th edition features new material focusing on power generation and power systems operation – two longstanding strengths of the handbook that have

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recently become front-burner technology issues. At the same time, the entire format of the handbook will be streamlined, removing archaic sections and providing a quick, easy look-up experience.

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fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices. To encompass such a vast amount of knowledge, The VLSI Handbook focuses on the key concepts, models,

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and equations that enable the electrical engineer to analyze, design, and predict the behavior of very large-scale integrated circuits. It provides the most up-to-date information on IC technology you can find. Using frequent examples, the

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Handbook stresses the fundamental theory behind professional applications. Focusing not only on the traditional design methods, it contains all relevant sources of information and tools to assist you in performing your job.

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This includes software, databases, standards, seminars, conferences and more. The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the

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PSpice for Digital
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A Practical
Handbook on High
Speed PCB and
System Design
**This document is
a reference guide
to the Xyce
Parallel
Electronic**

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Simulator, and is a companion document to the Xyce Users' Guide [1] . The focus of this document is (to the extent possible) exhaustively list device parameters, solver options, parser options,

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and other usage details of Xyce . This document is not intended to be a tutorial. Users who are new to circuit simulation are better served by the Xyce Users' Guide [1] . The information herein is subject to change

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**required. A
Designer's Guide
to VHDL
Synthesis has
been written to
help design
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based on VHDL and log synthesis instead of the more traditional schematic based approach. While there are a number of texts on the VHDL language and its use in simulation, little has been written from a designer's

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viewpoint on how to use VHDL and logic synthesis to design real ASIC systems. The material in this book is based on experience gained in successfully using these techniques for ASIC design and relies heavily on

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**realistic
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circuits and measuring and evaluating their performance are designed to support the material of the authors' book Analog Electronics (also published by PHI Learning). There are twenty-five experiments. The

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experiments cover the basic transistor circuits, the linear op-amp circuits, the active filters, the non-linear op-amp circuits, the signal generators, the voltage regulators, the power amplifiers,

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the high frequency amplifiers, and the data converters. In addition to the hands-on experiments using traditional test equipment and components, this manual describes the simulation of

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**circuits using
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memristive networks. It also shows how to realise computing devices, non-von Neumann architectures and provides future building blocks for deep learning hardware. With contributions from leaders in computer science, mathematics,

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this dynamic field. This book provides a collection of 15 excellent studies of Voice over IP (VoIP) technologies. While VoIP is undoubtedly a powerful and innovative communication tool for everyone, voice communication over the Internet is inherently less

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capabilities to a design, how to develop custom schematic parts, how to create footprints and PSpice models, and how to perform documentation, simulation and board fabrication from the same schematic design. This book is suitable for both beginners and

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how to simulate
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communication
systems and
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using the very
powerful Cadence
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software programs. Fourier series and Fourier transform are applied to signals to set the groundwork for the modulation techniques introduced in later chapters. Various baseband signals, including duo-binary baseband signaling, are generated and

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the spectra are examined to detail the unsuitability of these signals for accessing the public switched network. Pulse code modulation and time-division multiplexing circuits are examined and simulated where sampling and quantization noise topics are discussed.

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We construct a single-channel PCM system from transmission to receiver i.e. end-to-end, and import real speech signals to examine the problems associated with aliasing, sample and hold. Companding is addressed here and we look at the A and μ law

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characteristics for achieving better signal to quantization noise ratios. Several types of delta modulators are examined and also the concept of time divisionmultiplexing is considered. Multi-level signaling techniques such as QPSK andQAMare analyzed and

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simulated and
home-made
metersTM, such as
scatter and eye
meters, are used to
assess the
performance of these
modulation systems
in the presence of
noise. The raised-
cosine family of
filters for shaping
data before
transmission is

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examined in depth where bandwidth efficiency and channel capacity is discussed. We plot several graphs in Probe to compare the efficiency of these systems. Direct spread spectrum is the last topic to be examined and simulated to show the advantages of

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spreading the signal over a wide bandwidth and giving good signal security at the same time.

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the rats - Why
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guide to the
Xyce Parallel
Electronic
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[1] . The focus of this document is (to the extent possible) exhaustively list device parameters, solver options, parser options, and

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other usage
details of
Xyce . This
document is
not intended
to be a
tutorial.

Users who are
new to circuit
simulation are
better served
by the Xyce

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[1] .

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need to know for your ultimate performance in FPS multilayer games like Call of Duty and Battlefield. Complete PCB Design Using OrCad Capture and Layout provides instruction on how to use the OrCAD design suite to design and manufacture printed

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circuit boards. The book is written for both students and practicing engineers who need a quick tutorial on how to use the software and who need in-depth knowledge of the capabilities and limitations of the software package. There are two goals

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the book aims to reach: The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Layout. Capture is used to build the schematic diagram of the circuit, and Layout is used to design the circuit board so that it can be

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introduction to switching converters and basic switching converter topologies. Entry level chapters continue with a discussion of resonant converters, isolated switching converters, and the control schemes of switching converters. Skipping to chapters

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10 and 11, the subject matter involves an examination of interleaved converters and switched capacitor converters to round out and complete the overview of switching converter topologies. More detailed chapters include the continuous time-

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modeling and discrete-time modeling of switching converters as well as analog control and digital control. Advanced material covers tools for the simulation of switching converters (including both PSpice and Matlab simulations) and the basic concepts

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necessary to understand various actual and emerging applications for switching converters, such as power factor correction, LED drivers, low-noise converters, and switching converters topologies for solar and fuel cells. The final chapter contains

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Several complete design examples, including experimental designs that may be used as technical references or for class laboratory projects.

Supplementary information is available at crcpress.com including slides,

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PSpice examples (designed to run on the OrCAD 9.2 student version and PSIM software) and MATLAB scripts. Continuing the august tradition of its predecessors, Power-Switching Converters, Third Edition provides introductory and advanced

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manufacture printed
circuit boards. The
primary goal is to

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show the reader how to design a PCB using OrCAD Capture and OrCAD Editor.

Capture is used to build the schematic diagram of the circuit, and Editor is used to design the circuit board so that it can be manufactured. The book is written for both students and practicing engineers

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who need in-depth instruction on how to use the software, and who need background knowledge of the PCB design process.

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