
Nptel Ece Optical Communication

Embedded System Design
Optical Fiber Communications
Schaum's Outline of Digital Signal Processing
Practical Electronics for Inventors 2/E
Introduction to Algebraic Geometry and
Commutative Algebra
Signals and Systems
Evolution of Air Interface Towards 5G
Photonics, Plasmonics and Information Optics
Modern Digital and Analog Communication
Systems
Fundamentals of Microfabrication and
Nanotechnology, Three-Volume Set
Fundamentals of Microelectronics
FINITE ELEMENT METHOD AND COMPUTATIONAL
STRUCTURAL DYNAMICS
Semiconductor Device Fundamentals
Study of Engineering and Career
Microelectronics
Optical Waveguide Theory
Compressed Sensing for Engineers
Communication Systems Engineering
Data Communications and Networking
System Design Using the Internet of Things with
Deep Learning Applications
Electrical Machines - I
Digital Electronics

CMOS (—)

Fields and Waves in Communication Electronics

Electromagnetics

The Science and Engineering of Microelectronic Fabrication

Advanced Networking Concepts Applied Using Linux on IBM System z

An Introduction to Satellite Communications

RF and Microwave Engineering

Understanding Fiber Optics

An Introduction to Fiber Optics

Introduction to Data Communications and Networking

Electromagnetic Waves

Modern Wireless Communications

Data Networks

Fundamental Principles of Optical Lithography

Introduction to Political Ideologies

All New Electronics Self-Teaching Guide

Fiber-optic Communication Systems

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Optical
Communication*

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**JOHNS
MIDDLETON**

Embedded
System
Design Tata
McGraw-Hill
Education
This is a

thorough
introduction to
the concepts
underlying
networking
technology,
from physical
carrier media
to protocol
suites (for
example,
TCP/IP). The
author
includes
historical
material to
show the logic
behind the
development
of a given
mechanism,
and also

includes comprehensive discussions of increasingly important material, such as B-ISDN (Broadband Integrated Services Digital Network) and ATM (Asynchronous Transmission Mode). Optical Fiber Communications John Wiley & Sons

Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have

trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives

you Practice problems with full explanations that reinforce knowledge. Coverage of the most up-to-date developments in your course field. In-depth review of practices and applications. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time—and get your best test scores! Schaum's

Outlines-
Problem
Solved.
*Schaum's
Outline of
Digital Signal
Processing*
Cambridge
University
Press
Thorough
coverage of
basic digital
communicatio
n system
principles
ensures that
readers are
exposed to all
basic relevant
topics in
digital
communicatio
n system
design. The
use of CD
player and
JPEG image
coding
standard as
examples of
systems that

employ
modern
communicatio
n principles
allows readers
to relate the
theory to
practical
systems. Over
180 worked-
out examples
throughout
the book aids
readers in
understanding
basic
concepts.
Over 480
problems
involving
applications to
practical
systems such
as satellite
communicatio
ns systems,
ionospheric
channels, and
mobile radio
channels gives
readers ample
opportunity to

practice the
concepts they
have just
learned. With
an emphasis
on digital
communicatio
ns,
Communicatio
n Systems
Engineering,
Second
Edition
introduces the
basic
principles
underlying the
analysis and
design of
communicatio
n systems. In
addition, this
book gives a
solid
introduction to
analog
communicatio
ns and a
review of
important
mathematical
foundation

topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation,

channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication

n system design.
Practical Electronics for Inventors 2/E
 Pearson Education
 Textbook on the physical principles of optical fibers - for advanced undergraduates and graduates in physics or electrical engineering.
Introduction to Algebraic Geometry and Commutative Algebra
 Wiley
 Now in its third edition, Fundamentals of Microfabrication and Nanotechnolo

gy continues to provide the most complete MEMS coverage available. Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes, reflecting the substantial growth of this field. It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive

e information on materials, processes, and manufacturing options. The first volume offers a rigorous theoretical treatment of micro- and nanosciences, and includes sections on solid-state physics, quantum mechanics, crystallography, and fluidics. The second volume presents a very large set of manufacturing techniques for micro- and nanofabrication and covers different

forms of lithography, material removal processes, and additive technologies. The third volume focuses on manufacturing techniques and applications of Bio-MEMS and Bio-NEMS. Illustrated in color throughout, this seminal work is a cogent instructional text, providing classroom and self-learners with worked-out examples and end-of-chapter problems. The author

characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work.
Signals and Systems John Wiley & Sons
 Electricity -- Electronic components -- Semiconductors -- Photonic semiconductors -- Integrated circuits -- Digital integrated circuits -- Linear integrated circuits -- Circuit

assembly tips -- 100 electronic circuits.
Evolution of Air Interface Towards 5G
 CRC Press
 This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results

such as inductance of transmission lines calculations can be used for microwave frequencies. Familiarity with vector operations, including divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.
Photonics, Plasmonics and Information Optics
 McGraw-Hill
 CD-ROM contains: a software

package for designing fiber-optic communication systems called "OptiSystem Lite" and a set of problems for each chapter.

Modern Digital and Analog Communication Systems □□□□□□□□□□

This volume is designed to develop an understanding of data networks and evolving integrated networks, and to explore evolving integrated networks and the various analysis and design tools. It

begins with an overview of the principles behind data networks, then develops an understanding of the modelling issues and mathematical analysis needed to compare the effectiveness of different networks.

Fundamentals of Microfabrication and Nanotechnology, Three-Volume Set
John Wiley & Sons

Primarily intended for senior undergraduate and

postgraduate students of civil, mechanical and aerospace/aeronautical engineering, this text emphasises the importance of reliability in engineering computations and understanding the process of computer aided engineering.

Written with a view to promote the correct use of finite element technology and to present a detailed study of a set of essential computational

tools for the practice of structural dynamics, this book is a ready-reckoner for an in-depth discussion of finite element theory and estimation and control of errors in computations. It is specifically aimed at the audience with interest in vibrations and stress analysis. Several worked out examples and exercise problems have been included to describe the various

aspects of finite element theory and modelling. The exercise on error analysis will be extremely helpful in grasping the essence of posteriori error analysis and mesh refinement.

KEY FEATURES

- Thorough discussion of numerical algorithms for reliable and efficient computation.
- Ready-to-use finite element system and other scientific applications.
- Tips for improving the quality of

finite element solutions. • Companion DVD containing ready to use finite element applications.

AUDIENCE: Senior Undergraduate and Postgraduate students of Civil, Mechanical and Aerospace/Aeronautical engineering

Fundamentals of Microelectronics CRC Press

Fundamentals of Microelectronics, 2nd Edition is designed to build a strong foundation in both design

and analysis of electronic circuits this text offers conceptual understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The books unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence

and intuitive skills needed for success. Wiley THE BOOK THAT MAKES ELECTRONICS MAKE SENSE This intuitive, applications-driven guide to electronics for hobbyists, engineers, and students doesn't overload readers with technical detail. Instead, it tells you-and shows you-what basic and advanced electronics parts and components do, and how they work. Chock-full of illustrations,

Practical Electronics for Inventors offers over 750 hand-drawn images that provide clear, detailed instructions that can help turn theoretical ideas into real-life inventions and gadgets. CRYSTAL CLEAR AND COMPREHENSIVE Covering the entire field of electronics, from basics through analog and digital, AC and DC, integrated circuits (ICs), semiconductor s, stepper motors and servos, LCD

displays, and various input/output devices, this guide even includes a full chapter on the latest microcontrollers. A favorite memory-jogger for working electronics engineers, *Practical Electronics for Inventors* is also the ideal manual for those just getting started in circuit design. If you want to succeed in turning your ideas into workable electronic gadgets and inventions, is

THE book. Starting with a light review of electronics history, physics, and math, the book provides an easy-to-understand overview of all major electronic elements, including: Basic passive components o Resistors, capacitors, inductors, transformers o Discrete passive circuits o Current-limiting networks, voltage dividers, filter circuits, attenuators o Discrete

active devices o Diodes, transistors, thyristors o Microcontrollers o Rectifiers, amplifiers, modulators, mixers, voltage regulators
ENTHUSIASTIC READERS HELPED US MAKE THIS BOOK EVEN BETTER This revised, improved, and completely updated second edition reflects suggestions offered by the loyal hobbyists and inventors who made the first edition a bestseller. Reader-

suggested improvements in this guide include: Thoroughly expanded and improved theory chapter New sections covering test equipment, optoelectronics, microcontroller circuits, and more New and revised drawings Answered problems throughout the book Practical Electronics for Inventors takes you through reading schematics, building and testing prototypes,

purchasing electronic components, and safe work practices. You'll find all this in a guide that's destined to get your creative and inventive juices flowing. FINITE ELEMENT METHOD AND COMPUTATION AL STRUCTURAL DYNAMICS Oxford Higher Education Along the lines developed by Grothendieck, this book delves into the rich interplay between algebraic geometry and

commutative algebra. With concise yet clear definitions and synopses a selection is made from the wealth of material in the disciplines including the Riemann-Roch theorem for arbitrary projective curves."--pub. desc. **Semiconductor or Device Fundamentals** CRC Press Deals with the physics and geometry of the geostationary orbit, and the construction and operation of satellites and launch

vehicles. Gives a thorough analysis of essential factors governing the quality of speech, data, and television signals received via satellite. Particular attention is paid to the use of satellites for maritime, aeronautical and land-mobile communications and VSATs (very-small aperture terminals). Annotation copyrighted by Book News, Inc., Portland, OR

Study of Engineering and Career
Book Renter, Incorporated
This new textbook shows that each of the major political ideologies gives rise to, or in some cases specifies, a particular view of human beings, with significant consequences for the ways we organise our political systems and our forms of political participation. In each chapter, the author provides a brief historical

introduction and then outlines the key points of the ideology concerned. He then demonstrates conceptual and practical issues that arise thence, including successes and failures in the implementation of the selected ideologies. The chapters follow a broad conceptual sequence and adopt a chronological order where appropriate. This clear, direct, and accessible textbook aims to aid the

reader to identify and evaluate the assumptions underlying a wide range of public matters. The intention is to help enhance readers' understanding of major public issues, so that they can ask more incisive and better-informed questions about those.

Key Features

- Each chapter supplemented by an apposite list of suggested readings and extension exercises
- A dedicated

chapter on Technocracy and Managerialism

- A dedicated chapter on Poststructuralism and Postmodernism
- An ideal companion for students from different backgrounds, including political science, public administration, philosophy, public policy, law, journalism, and other areas

Microelectro nics World Scientific

Over the past few decades, wireless access networks have

evolved extensively to support the tremendous growth of consumer traffic. This superlative growth of data consumption has come about due to several reasons, such as evolution of the consumer devices, the types of telephone and smartphone being used, convergence of services, digitisation of economic transactions, tele-education, telemedicine, m-commerce, virtual reality office, social

media, e-governance, e-security, to name but a few. Not only has the society transformed to a digital world, but also the expectations from the services provided have increased many folds. The last mile/meters of delivery of all e-services is now required to be wireless. It has always been known that wireless links are the bottleneck to providing high data rates and high quality of service.

Several wireless signalling and performance analysis techniques to overcome the hurdles of wireless channels have been developed over the last decade, and these are fuelling the evolution of 4G towards 5G. Evolution of Air Interface Towards 5G attempts to bring out some of the important developments that are contributing towards such growth.

Optical

Waveguide Theory

An Introduction to Fiber Optics By helping students develop an intuitive understanding of the subject, Microelectronics teaches them to think like engineers. The second edition of Razavi's Microelectronics retains its hallmark emphasis on analysis by inspection and building students' design intuition, and it incorporates a host of new pedagogical features that make it easier

to teach and learn from, including: application sidebars, self-check problems with answers, simulation problems with SPICE and MULTISIM, and an expanded problem set that is organized by degree of difficulty and more clearly associated with specific chapter sections. Compressed Sensing for Engineers PHI Learning Pvt. Ltd. For almost 30 years, this book has been a classic text

for electronics enthusiasts. Now completely updated for today's technology with easy explanations and presented in a more user-friendly format, this third edition helps you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm's law and current flow, and an acquaintance with first-year algebra. The question-and-

answer format, illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed. Communication Systems Engineering Pearson Education India Although roughly a half-century old, the field of study associated with semiconductor devices continues to be dynamic and exciting. New and improved devices are

being developed at an almost frantic pace. While the number of devices in complex integrated circuits increases and the size of chips decreases, semiconductor properties are now being engineered to fit design specifications. Semiconductor Device Fundamentals serves as an excellent introduction to this fascinating field. Based in part on the Modular Series on Solid State Devices, this textbook explains the basic terminology, models, properties, and concepts associated with semiconductor s and semiconductor devices. The book provides detailed insight into the internal workings of building block device structures and systematically develops the analytical tools needed to solve practical device problems. *Data Communicatio ns and Networking* IBM Redbooks This IBM® Redbooks® publication describes important networking concepts and industry standards that are used to support high availability on IBM System z®. Some of the networking standards described here are VLANs, VLAN trunking, link aggregation, virtual switches, VNICs, and load-balancing. We examine the various

aspects of network setups and introduce the main Linux on System z networking commands and configuration files. We describe the management of network interface parameters, assignment of addresses to a network interface, and usage of the `ifconfig` command to configure network interfaces. We provide an overview of connectivity options available on the System z

platform. We also describe high availability concepts and building a high availability solution using IBM Tivoli® System Automation. We also provide the implementation steps necessary to build a redundant network connections set up between an IBM z/VM® system and the external network switches using two Open Systems Adapter-Express 3 (OSA-Express

3) adapters with 10 Gb Ethernet ports. We describe the tests performed in our lab environment. The objectives of these tests were to gather information about performance and failover from the perspective of a real scenario, where the concepts of described in this book were applied. This book is focused on information that is practical and useful for readers with

experience in network analysis and engineering networks, System z and Linux systems administrators , especially for readers that administer	networks in their day-to-day activities. For additional reading: A Technote is available that explains changes to using channel	bonding interfaces introduced with SLES 11 SP 2. It can be found at: http://www.redbooks.ibm.com/abstracts/tips1000.html? Open
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