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Virtual and Augmented Reality have existed for a long time but were stuck to the research world or to some large manufacturing companies. With the appearance of low-cost devices, it is expected a number of new applications, including for the general audience. This book aims at making a statement about those novelties as well as

distinguishing them from the complex challenges they raise by proposing real use cases, replacing those recent evolutions through the VR/AR dynamic and by providing some perspective for the years to come.

A practical introduction to state-of-the-art freeform optics design for LED packages and applications By affording designers the freedom to create complex, aspherical optical surfaces with minimal or no aberrations, freeform design transcends the constraints imposed by

hundreds of years of optics design and fabrication. Combining unprecedented design freedom with precise light irradiation control, freeform optics design is also revolutionizing the design and manufacture of high quality LED lighting. The first and only book of its kind, Freeform Optics for LED Packages and Applications helps put readers at the forefront of the freeform optics revolution. Designed to function as both an authoritative review of the current state of the

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industry and a practical introduction to advanced optical design for LED lighting, this book makes learning and mastering freeform optics skills simpler and easier than ever before with: Real-world examples and case studies systematically describing an array of algorithms and designs—from new freeform algorithms to design methods to advanced optical designs Coding for all freeform optics algorithms covered—makes it easier and more convenient to

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start developing points of freeform optics and construct lenses or reflectors, right away Case studies of a range of products, including designs for a freeform optics LED bulb, an LED spotlight, LED street lights, an LED BLU, and many more Freeform Optics for LED Packages and Applications is must-reading for optical design engineers and LED researchers, as well as advanced-level students with an interest in LED lighting. It is also an indispensable working resource design

practitioners within the LED lighting industry.

Praise for CMOS: Circuit Design, Layout, and Simulation Revised Second Edition from the Technical Reviewers "A refreshing industrial flavor. Design concepts are presented as they are needed for 'just-in-time' learning. Simulating and designing circuits using SPICE is emphasized with literally hundreds of examples. Very few textbooks contain as much detail as this one. Highly recommended!" --Paul M. Furth, New Mexico State University "This book builds

a solid knowledge of CMOS circuit design from the ground up. With coverage of process integration, layout, analog and digital models, noise mechanisms, memory circuits, references, amplifiers, PLLs/DLLs, dynamic circuits, and data converters, the text is an excellent reference for both experienced and novice designers alike." --Tyler J. Gomm, Design Engineer, Micron Technology, Inc. "The Second Edition builds upon the success of the first with new chapters that cover additional material

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such as oversampled converters and non-volatile memories. This is becoming the de facto standard textbook to have on every analog and mixed-signal designer's bookshelf." --Joe Walsh, Design Engineer, AMI Semiconductor CMOS circuits from design to implementation CMOS: Circuit Design, Layout, and Simulation, Revised Second Edition covers the practical design of both analog and digital integrated circuits, offering a vital, contemporary view of a wide range of analog/digital circuit blocks, the BSIM

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model, data converter architectures, and much more. This edition takes a two-path approach to the topics: design techniques are developed for both long- and short-channel CMOS technologies and then compared. The results are multidimensional explanations that allow readers to gain deep insight into the design process. Features include: Updated materials to reflect CMOS technology's movement into nanometer sizes Discussions on phase- and delay-locked loops, mixed-signal circuits, data

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**converters, and circuit
noise More than 1,000
figures, 200 examples, and
over 500 end-of-chapter
problems In-depth
coverage of both analog
and digital circuit-level
design techniques Real-
world process parameters
and design rules The book's
Web site, CMOSedu.com,
provides: solutions to the
book's problems; additional
homework problems
without solutions; SPICE
simulation examples using
HSPICE, LTspice, and
WinSpice; layout tools and
examples for actually
fabricating a chip; and**

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***videos to aid learning
Radio Network Planning
and Optimisation for UMTS,
Second Edition, is a
comprehensive and fully
updated introduction to
WCDMA radio access
technology used in UMTS,
featuring new content on
key developments. Written
by leading experts at
Nokia, the first edition
quickly established itself as
a best-selling and highly
respected book on how to
dimension, plan and
optimise UMTS networks.
This valuable text examines
current and future radio
network management***

issues and their impact on network performance as well as the relevant capacity and coverage enhancement methods. In addition to coverage of WCDMA radio access technology used in UMTS, and the planning and optimisation of such a system, the service control and management concept in WCDMA and GPRS networks are also introduced. This is an excellent source of information for those considering future cellular networks where Quality of Service (QoS) is of

paramount importance. Key features of the Second Edition include: High-Speed Downlink Packet Access (HSDPA) - physical layer, dimensioning and radio resource management Quality of Service (QoS) mechanisms in network for service differentiation Multiple Input - Multiple Output (MIMO) technology Practical network optimisation examples Service optimisation for UMTS and GPRS/EDGE capacity optimisation The 'hot topic' of service control and management in WCDMA and GPRS

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networks, that has evolved since the first edition Companion website includes: Figures Static radio network simulator implemented in MATLAB® This text will have instant appeal to wireless operators and network and terminal manufacturers. It will also be essential reading for undergraduate and postgraduate students, frequency regulation bodies and all those interested in radio network planning and optimisation, particularly RF network systems engineering professionals.

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***Image Beyond the Screen
Information Display
Case Studies***

***Nitride Semiconductor
Light-Emitting Diodes
(LEDs)***

***Materials, Technologies,
and Applications***

***Optical and Digital Image
Processing***

***Gain the knowledge and tools
to deliver compelling mobile
phone applications. Mobile and
wireless application design is
complex and challenging.***

***Selecting an application
technology and designing a
mobile application require an
understanding of the benefits,
costs, context, and restrictions***

of the development company, end user, target device, and industry structure. Designing the Mobile User Experience provides the experienced product development professional with an understanding of the users, technologies, devices, design principles, techniques and industry players unique to the mobile and wireless space. Barbara Ballard describes the different components affecting the user experience and principles applicable to the mobile environment, enabling the reader to choose effective technologies, platforms, and devices, plan appropriate

application features, apply pervasive design patterns, and choose and apply appropriate research techniques.

Designing the Mobile User Experience: Provides a comprehensive guide to the mobile user experience, offering guidance to help make appropriate product development and design decisions. Gives product development professionals the tools necessary to understand development in the mobile environment. Clarifies the components affecting the user experience and principles uniquely applicable to the mobile application field.

Explores industry structure and power dynamics, providing insight into how mobile technologies and platforms become available on current and future phones. Provides user interface design patterns, design resources, and user research methods for mobile user interface design. Illustrates concepts with example photographs, explanatory tables and charts, and an example application. Designing the Mobile User Experience is an invaluable resource for information architects, user experience planners and designers, interaction designers, human

factors specialists, ergonomists, product marketing specialists, and brand managers. Managers and directors within organizations entering the mobile space, advanced students, partnership managers, software architects, solution architects, development managers, graphic designers, visual designers, and interface designers will also find this to be an excellent guide to the topic.

Videomapping with its use of digital images is an audiovisual format that has gained traction with the

creative industries. It consists of projecting images onto diverse surfaces, according to their geometric characteristics. It is also synonymous with spatial augmented reality, projection mapping and spatial correspondence. Image Beyond the Screen lays the foundations for a field of interdisciplinary study, encompassing the audiovisual, humanities, and digital creation and technologies. It brings together contributions from researchers, and testimonials from some of the creators, technicians and organizers who now make up

the many-faceted community of videomapping. Live entertainment, museum, urban or event planning, cultural heritage, marketing, industry and the medical field are just a few examples of the applications of this media. This book focuses on ambient intelligence and addresses various issues related to data management, networking and HCI in this context. Taking a holistic view, it covers various levels of abstraction, ranging from fundamental to advanced concepts and brings together the contributions of various specialists in the field. Moreover, the book covers the

key areas of computer science concerned with the emergence of ambient intelligence (e.g. interaction, middleware, networks, information systems, etc.). It even goes slightly beyond the borders of computer science with contributions related to smart materials and ethics. The authors cover a broad spectrum, with some chapters dedicated to the presentation of basic concepts and others focusing on emerging applications in various fields such as health, transport and tourism. Miniaturization and mass replications have begun to

lead the optical industry in the transition from traditional analog to novel digital optics. As digital optics enter the realm of mainstream technology through the worldwide sale of consumer electronic devices, this timely book aims to present the topic of digital optics in a unified way. Ranging from micro-optics to nanophotonics, and design to fabrication through to integration in final products, it reviews the various physical implementations of digital optics in either micro-refractives, waveguide (planar lightwave chips), diffractive

and hybrid optics or sub-wavelength structures (resonant gratings, surface plasmons, photonic crystals and metamaterials). Finally, it presents a comprehensive list of industrial and commercial applications that are taking advantage of the unique properties of digital optics. Applied Digital Optics is aimed primarily at optical engineers and product development and technical marketing managers; it is also of interest to graduate-level photonics students and micro-optic foundries. Helps optical engineers review and choose the appropriate software tools

to design, model and generate fabrication files. Gives product managers access to an exhaustive list of applications available in today's market for integrating such digital optics, as well as where the next potential application of digital optics might be. Provides a broad view for technical marketing managers in all aspects of digital optics, and how such optics can be classified. Explains the numerical implementation of optical design and modelling techniques. Enables micro-optics foundries to integrate the latest fabrication and replication techniques, and

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**accordingly fine tune their own
fabrication processes.**

**Photoalignment of Liquid
Crystalline Materials**

Semiconductor Disk Lasers

**Human Computer Interaction
Handbook**

**PROBABILITY AND MEASURE,
3RD ED**

**Materials, Devices, and
Processing of Organic Light-
Emitting Diodes**

Project Control

The book "Nitride Semiconductor Technology" provides an overview of nitride semiconductors and their uses in optoelectronics and power electronics devices. It explains the physical properties of those materials as well as their growth

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methods. Their applications in high electron mobility transistors, vertical power devices, LEDs, laser diodes, and vertical-cavity surface-emitting lasers are discussed in detail. The book further examines reliability issues in these materials and puts forward perspectives of integrating them with 2D materials for novel high-frequency and high-power devices. In summary, it covers nitride semiconductor technology from materials to devices and provides the basis for further research.

In recent years, Moore's law has fostered the steady growth of the field of digital image processing, though the computational complexity remains a problem for

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most of the digital image processing applications. In parallel, the research domain of optical image processing has matured, potentially bypassing the problems digital approaches were suffering and bringing new applications. The advancement of technology calls for applications and knowledge at the intersection of both areas but there is a clear knowledge gap between the digital signal processing and the optical processing communities. This book covers the fundamental basis of the optical and image processing techniques by integrating contributions from both optical and digital research communities to solve current application

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bottlenecks, and give rise to new applications and solutions. Besides focusing on joint research, it also aims at disseminating the knowledge existing in both domains. Applications covered include image restoration, medical imaging, surveillance, holography, etc... "a very good book that deserves to be on the bookshelf of a serious student or scientist working in these areas." Source: Optics and Photonics News

Mechanics of Microsystems Alberto Corigliano, Raffaele Ardito, Claudia Comi, Attilio Frangi, Aldo Ghisi and Stefano Mariani, Politecnico di Milano, Italy A mechanical approach to microsystems, covering fundamental concepts

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including MEMS design, modelling and reliability Mechanics of Microsystems takes a mechanical approach to microsystems and covers fundamental concepts including MEMS design, modelling and reliability. The book examines the mechanical behaviour of microsystems from a 'design for reliability' point of view and includes examples of applications in industry. Mechanics of Microsystems is divided into two main parts. The first part recalls basic knowledge related to the microsystems behaviour and offers an overview on microsystems and fundamental design and modelling tools from a mechanical point of view, together with many practical

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examples of real microsystems. The second part covers the mechanical characterization of materials at the micro-scale and considers the most important reliability issues (fracture, fatigue, stiction, damping phenomena, etc) which are fundamental to fabricate a real working device. Key features: Provides an overview of MEMS, with special focus on mechanical-based Microsystems and reliability issues. Includes examples of applications in industry. Accompanied by a website hosting supplementary material. The book provides essential reading for researchers and practitioners working with MEMS, as well as graduate

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students in mechanical, materials and electrical engineering.

"Unique in linking sustainable energy technologies with innovation and product design, this book offers clear explanation of both and case studies enabling readers to understand and design energy-efficient products in several different markets. The book integrates the subject areas that are necessary for the design of sustainable and energy-efficient products based on sustainable energy technologies. The theory provided is illustrated by cases of design projects and concepts in practice. With the book's methodological approach, the reader is able to apply the

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information and examples in their research projects or product design processes. This book fills a void in existing literature at the intersection of innovation processes, sustainable energy technologies, energy demand reduction, product development, and user behaviour, which requires an integrated view on the development of sustainable energy solutions. As such, the editors offer a unique publication in "product innovation in sustainable energy technologies and energy-efficiency" that corresponds to the growing interest in the field"--

OLED Microdisplays
Communication and Sensing

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Fox and McDonald's Introduction
to Fluid Mechanics

Properties, Characterization, and
Imaging

Fundamentals of Industrial
Electronics

Project Management

**Be the speaker they
follow with breakthrough
innovative presentations
Innovative Presentations**

**For Dummies is a
practical guide to
engaging your audience
with superior, creative,
and ultra-compelling
presentations. Using
clear language and a
concise style, this book**

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goes way beyond

PowerPoint to enable you to reimagine, reinvent, and remake your presentations. Learn how to stimulate, capture, and hold your audience in the palm of your hand with sound, sight, and touch, and get up to speed on the latest presentation design methods that make you a speaker who gets audiences committed and acting upon your requests. This resource delves into desktop publishing skills,

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online presentations,
analyzing your audience,
and delivers fresh, new
tips, tricks, and
techniques that help you
present with confidence
and raw power. Focused
and innovative
presentations are an
essential part of doing
business, and most
importantly, getting
business. Competition,
technology, and the ever-
tightening economy have
made out-presenting your
competitors more
important than ever.
Globally, an estimated

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350 PowerPoint

presentations are given every second. When it's your turn, you need to go high above and far beyond to stand out from the pack, and *Innovative Presentations For Dummies* provides a winning game plan. The book includes extensive advice on the visual aspect of presentations and, more importantly, it teaches you how to analyze your audience and speak directly to them. A personalized approach combined with

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stunning visuals and full sensory engagement makes for a winning presentation. Learn how to be an innovative, not just "effective" presenter in any situation Understand how to read and cater to specific audiences Create captivating visual materials using technology and props Creative customize presentations to best communicate with audiences More and more employees are being called upon to make

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presentations, with or without prior training. With step-by-step instruction, vivid examples and ideas and a 360-degree approach to presentations, *Innovative Presentations For Dummies* will help to drastically improve your presentation outcomes as never before.

The mobile display industry has witnessed rapid growth, in both volume and diversification, in recent years. This trend is expected to persist

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with continued consumer demand for mobile communications and computing applications. Mobile displays are now integral to a wide range of devices such as MP3 players, digital cameras, PDAs, GPS map readers, portable DVD players, and electronic books, as well as the ubiquitous mobile phone and laptop computers. This proliferation of products has fuelled a significant investment into the research and development of the

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mobile display, with key research laboratories across the display industry and academia producing many exciting technological advancements. With contributions from well-known experts, in both industry and academia, this book presents a comprehensive coverage of the mobile display in a single volume. Ranging from an in-depth analysis of the requirements that the displays must meet, through current devices,

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to emerging technologies, the text features: mobile environment and human-factor considerations for the display; advances in the incumbent active matrix liquid crystal display (AMLCD) technologies; backlighting and light manipulation techniques; mobile display driver electronics and interface technologies; emerging technologies including active matrix organic light emitting diode (AMOLED),

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electronic paper displays, and system-on-glass (SOG) developments; application developments in eyewear, mobile projector, and 3D displays. Mobile Displays: Technology and Applications presents, in addition to the fundamentals, a detailed update on state-of-the-art advancements. It is an invaluable resource for practicing electronics and display engineers working on the development of mobile

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displays and their applications. It is also an extensive reference for graduates taking special courses in display technologies. The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field of information display. Complementary to the aims of the society, the Wiley-SID series is intended to explain the

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latest developments in information display technology at a professional level. The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics. Projection is a technology for generating large, high resolution images at a price point end users can afford. This allows it to be used in a wide variety of large-screen

markets such as television and cinema. In addition, there are emerging small screen markets where a pocketable miniaturized projector can display images from mobile information devices such as smart phones or portable media players. Fully revised, this second edition of Projection Displays provides up-to-date coverage of the optical and mechanical systems in electronic projection displays. It takes into

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account major new developments in the many technologies needed to manufacture a projector display system. It presents a comprehensive review of projector architectures, systems, components and devices. Key new and updated features include: new material on light sources for projection displays; updated information on the human factors of projection displays including color gamuts, resolution and speckle; coverage of new

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image generating systems including LCOS and scanned laser systems; up to date information on front and rear projection screens; practical examples of projection display applications; models for predicting the performance of optical and mechanical systems This book is aimed at practicing engineers and researchers involved in the research, development, design and manufacture of projection displays. It

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includes key aspects from the many technologies contributing to projection systems such as illumination sources, optical design, electronics, semiconductor design, microdisplay systems and mechanical engineering. The book will also be of interest to graduate students taking courses in display technology and imaging science, as well as students of the many other engineering, physics and optics

disciplines that lead into the field of projection displays. The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field of information display. Complementary to the aims of the society, the Wiley-SID series is intended to explain the latest developments in information display technology at a professional level. The

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broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics

A Comprehensive Source for Taking on the Next Stage of OLED R&D

OLED Fundamentals: Materials, Devices, and Processing of Organic Light-Emitting Diodes brings together key topics across the field of organic light-emitting diodes (OLEDs), from fundamental chemistry

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and physics to practical materials science and engineering aspects to design and manufacturing factors. Experts from top academic institutions, industry, and national laboratories provide thorough, up-to-date coverage on the most useful materials, devices, and design and fabrication methods for high-efficiency lighting. The first part of the book covers all the construction materials of OLED

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devices, from substrate to encapsulation. For the first time in book form, the second part addresses challenges in devices and processing, including architectures and methods for new OLED lighting and display technologies. The book is suitable for a broad audience, including materials scientists, device physicists, synthetic chemists, and electrical engineers. It can also serve as an introduction for graduate students

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interested in applied
aspects of photophysics
and electrochemistry in
organic thin films.

Technology and
Applications

Product Innovation in
Sustainable Energy

Technologies

Renewable and Efficient
Electric Power Systems

VCSEL Industry

Polar Oxides

Circuit Design, Layout,
and Simulation

Nitride Semiconductor Light-
Emitting Diodes (LEDs):

Materials, Technologies, and
Applications, Second Edition

reviews the fabrication, performance and applications of the technology, encompassing the state-of-the-art material and device development, along with considerations regarding nitride-based LED design. This updated edition is based on the latest research and advances, including two new chapters on LEDs for large displays and laser lighting. Chapters cover molecular beam epitaxy (MBE) growth of nitride semiconductors, modern metalorganic chemical vapor deposition (MOCVD) techniques, the growth of nitride-based materials, and gallium nitride (GaN)-on-sapphire and GaN-on-

silicon technologies for LEDs. Nanostructured, non-polar and semi-polar nitride-based LEDs, as well as phosphor-coated nitride LEDs, are also discussed. The book also addresses the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable LEDs, and LEDs based on quantum wells and quantum dots. Further chapters discuss the development of LED encapsulation technology and fundamental efficiency droop issues in gallium indium nitride (GaInN) LEDs. It is a technical resource for academics, physicists, materials scientists,

electrical engineers, and those working in the lighting, consumer electronics, automotive, aviation, and communications sectors.

Features new chapters on laser lighting, addressing the latest advances on this topic Reviews fabrication, performance, and applications of this technology that encompass the state-of-the-art material and device development Covers the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable LEDs, and LEDs based on quantum wells and quantum dots Highlights applications of nitride LEDs,

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including liquid crystal display (LCD) backlighting, infra-red emitters, and automotive lighting Provides a comprehensive discussion of gallium nitride on both silicon and sapphire substrates

The Industrial Electronics Handbook, Second Edition combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits,

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electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected

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publications in the field.

Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field. This volume presents the basic knowledge that can be applied to the other sections of the handbook. Topics covered include: Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set: Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems
In the era of technological ubiquity and online interaction, the importance of proper

computer training cannot be understated. Following established standards and practices boosts the value of communication in digital environments for all users. The Handbook of Research on Interactive Information Quality in Expanding Social Network Communications examines the strategic elements involved in ICT training within the context of online networks. Combining scientific, theoretical, and practical perspectives on the importance of communicability in such networks, this book is an essential reference source for researchers, students, teachers, designers, ICT specialists,

engineers, and computer programmers interested in social networking technologies. The use of light-emitting proteins for the detection of biomolecules provides fast and sensitive methods which overcome the disadvantages of radioactive labels and the high cost of fluorescent dyes. This reference work summarizes modern advanced techniques and their applications and includes practical examples of assays based on photoproteins. The book presents contemporary key topics like luminescent marine organisms, DNA probes, reporter gene assays and photoproteins,

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**ratiometric sensing, use of
photoproteins for in vivo
functional imaging and
luminescent proteins in binding
assays, to name just a few, and
is complemented by recent
advances in instrumentation.
Includes an introductory chapter
by 2008 Chemistry Nobel
laureate Osamu Shimomura.
Fundamentals, Evolving
Technologies, and Emerging
Applications, Third Edition
Freeform Optics for LED
Packages and Applications
Computer Science and Ambient
Intelligence
OLED Fundamentals
Handbook of Research on
Interactive Information Quality in**

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Expanding Social Network Communications

Pico-projection Systems

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly

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state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain

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physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and

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systems.

This timely publication presents a review of the most recent developments in the field of Semiconductor Disk Lasers. Covering a wide range of key topics, such as operating principles, thermal management, nonlinear frequency conversion, semiconductor materials, short pulse generation, electrical pumping, and laser applications, the book provides readers with a comprehensive account of the fundamentals and latest advances in this rich and diverse field. In so doing, it

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brings together contributions from world experts at major collaborative research centers in Europe and the USA. Each chapter includes a tutorial style introduction to the selected topic suitable for postgraduate students and scientists with a basic background in optics - making it of interest to a wide range of scientists, researchers, engineers and physicists working and interested in this rapidly developing field. It will also serve as additional reading for students in the field.

Advances in Chemical

Mechanical Planarization (CMP) provides the latest information on a mainstream process that is critical for high-volume, high-yield semiconductor manufacturing, and even more so as device dimensions continue to shrink. The technology has grown to encompass the removal and planarization of multiple metal and dielectric materials and layers both at the device and the metallization levels, using different tools and parameters, requiring improvements in the control of topography and defects.

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This important book offers a systematic review of fundamentals and advances in the area. Part One covers CMP of dielectric and metal films, with chapters focusing on the use of particular techniques and processes, and on CMP of particular various materials, including ultra low-k materials and high-mobility channel materials, and ending with a chapter reviewing the environmental impacts of CMP processes. Part Two addresses consumables and process control for improved CMP, and includes chapters on the

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preparation and
characterization of slurry,
diamond disc pad
conditioning, the use of FTIR
spectroscopy for
characterization of surface
processes, and approaches
for deflection characterization,
mitigation, and reduction.
Considers techniques and
processes for CMP of
dielectric and metal films
Includes chapters devoted to
CMP for particular materials
Addresses consumables and
process control for improved
CMP
A solid, quantitative, practical
introduction to a wide range of

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renewable energy systems—in a completely updated, new edition. The second edition of *Renewable and Efficient Electric Power Systems* provides a solid, quantitative, practical introduction to a wide range of renewable energy systems. For each topic, essential theoretical background is introduced, practical engineering considerations associated with designing systems and predicting their performance are provided, and methods for evaluating the economics of these systems

are presented. While the book focuses on the fastest growing, most promising wind and solar technologies, new material on tidal and wave power, small-scale hydroelectric power, geothermal and biomass systems is introduced. Both supply-side and demand-side technologies are blended in the final chapter, which introduces the emerging smart grid. As the fraction of our power generated by renewable resources increases, the role of demand-side management in helping maintain grid balance is

explored. Renewable energy systems have become mainstream technologies and are now, literally, big business. Throughout this edition, more depth has been provided on the financial analysis of large-scale conventional and renewable energy projects. While grid-connected systems dominate the market today, off-grid systems are beginning to have a significant impact on emerging economies where electricity is a scarce commodity. Considerable attention is paid to the economics of all of

these systems. This edition has been completely rewritten, updated, and reorganized. New material has been presented both in the form of new topics as well as in greater depth in some areas. The section on the fundamentals of electric power has been enhanced, making this edition a much better bridge to the more advanced courses in power that are returning to many electrical engineering programs. This includes an introduction to phasor notation, more emphasis on reactive power as well as

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real power, more on power converter and inverter electronics, and more material on generator technologies. Realizing that many students, as well as professionals, in this increasingly important field may have modest electrical engineering backgrounds, early chapters develop the skills and knowledge necessary to understand these important topics without the need for supplementary materials. With numerous completely worked examples throughout,

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the book has been designed to encourage self-instruction.

The book includes worked examples for virtually every topic that lends itself to quantitative analysis. Each chapter ends with a problem set that provides additional practice. This is an essential resource for a mixed audience of engineering and other technology-focused individuals.

Radio Network Planning and Optimisation for UMTS

Wind Power in Power

Systems

Physics and Technology

Physics and Applications

CMOS

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Designing the Mobile User Experience

Important new insights into how various components and systems evolved. Premised on the idea that one cannot know a science without knowing its history, History of Wireless offers a lively new treatment that introduces previously unacknowledged pioneers and developments, setting a new standard for understanding the evolution of this important technology. Starting with the background-magnetism,

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electricity, light,
and Maxwell's
Electromagnetic Theory-
this book offers new
insights into the initial
theory and experimental
exploration of wireless.
In addition to the well-
known contributions of
Maxwell, Hertz,
and Marconi, it examines
work done by Heaviside,
Tesla, and
passionate amateurs such as
the Kentucky melon farmer
Nathan Stubblefield and the
unsung hero Antonio
Meucci. Looking at the
story from mathematical,
physics, technical, and

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*other perspectives,
the clearly written text
describes the development
of wireless within a vivid
scientific milieu. History
of Wireless also goes into
other key areas, including:
The work of J. C. Bose and
J. A. Fleming German,
Japanese, and Soviet
contributions to physics
and applications of
electromagnetic
oscillations and waves
Wireless telegraphic and
telephonic development and
attempts to achieve
transatlantic wireless
communications Wireless
telegraphy in South Africa*

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*in the early
twentieth century Antenna
development in Japan: past
and present Soviet quasi-
optics at near-mm and sub-
mm wavelengths The
evolution of
electromagnetic waveguides
The history of phased
array antennas Augmenting
the typical, Marconi-
centered approach, History
of Wireless fills in the
conventionally accepted
story with attention to
more specific, less-known
discoveries and
individuals, and challenges
traditional assumptions
about the origins and*

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growth of wireless. This allows for a more comprehensive understanding of how various components and systems evolved. Written in a clear tone with a broad scientific audience in mind, this exciting and thorough treatment is sure to become a classic in the field.

Winner of a 2013 CHOICE Outstanding Academic Title Award The third edition of a groundbreaking reference, *The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies, and*

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*Emerging Applications
raises the bar for
handbooks in this field.
It is the largest, most
complete compilation of
HCI theories, principles,
advances, case st
A hands-on reference to
the technical, commercial,
and industrial aspects of
VCSEL technology In VCSEL
Industry: Communication
and Sensing, a team of
distinguished researchers
and manufacturing
professionals deliver a
thorough and practical
reference guide to
vertical-cavity surface-
emitting lasers (VCSELs)*

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for young entrepreneurs, investors, venture capitalists, and researchers. The authors offer comprehensive descriptions of the technology involved, as well as a robust exploration of the industry and commercial landscape in which VCSELS exist. The book contains numerous illustrations and schematics of the anatomy of VCSEL product developments and an insightful discussion of the proliferation of VCSELS in photonics and optics. There is also a

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dedicated section on photoreceivers used for VCSEL-based data communications and sensing. VCSEL Industry: Communication and Sensing provides readers with an accessible, commercial perspective of an important technology while offering just enough technical detail to make sense of the subject. The book also includes: A thorough introduction to VCSELs, including discussions of semiconductor lasers, materials, wavelengths, and why VCSELs are

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attractive for photonics applications Comprehensive explorations of the VCSEL industry, including market demands, an industry landscape, descriptions of commercial products based on VCSELs, and business models Practical discussions of VCSELs for data communication, including high-speed VCSELs, gain and parasitic effects on bandwidth and speed, and form factors and standards In-depth examinations of VCSEL arrays for sensing, including high-power VCSELs in consumer

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*electronics Perfect for
early-career researchers,
engineers, entrepreneurs,
investors, and managers,
VCSEL Industry:*

*Communication and Sensing
will also prove to be an
invaluable addition to the
libraries of executives
from across the
semiconductor industry.*

*Written by recognized
experts in the study of
proteins, Proteomics for
Biological Discovery
begins by discussing the
emergence of proteomics
from genome sequencing
projects and a summary of
potential answers to be*

gained from proteome-level research. The tools of proteomics, from conventional to novel techniques, are then dealt with in terms of underlying concepts, limitations and future directions. An invaluable source of information, this title also provides a thorough overview of the current developments in post-translational modification studies, structural proteomics, biochemical proteomics, microfabrication, applied proteomics, and bioinformatics relevant to

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proteomics. Presents a comprehensive and coherent review of the major issues faced in terms of technology development, bioinformatics, strategic approaches, and applications Chapters offer a rigorous overview with summary of limitations, emerging approaches, questions, and realistic future industry and basic science applications Discusses higher level integrative aspects, including technical challenges and applications for drug discovery Accessible to

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*the novice while providing
experienced investigators
essential information
Proteomics for Biological
Discovery is an essential
resource for students,
postdoctoral fellows, and
researchers across all
fields of biomedical
research, including
biochemistry, protein
chemistry, molecular
genetics,
cell/developmental
biology, and
bioinformatics.
Projection Displays
Photoproteins in
Bioanalysis
Proteomics for Biological*

*Advances in Chemical
Mechanical Planarization
(CMP)*

*History of Wireless
Electroluminescence*

Photoalignment possesses significant advantages in comparison with the usual 'rubbing' treatment of the substrates of liquid crystal display (LCD) cells as it is a non-contact method with a high resolution. A new technique recently pioneered by the authors of this book, namely the photo-induced diffusion reorientation of azodyes, does not involve any photochemical or structural transformations of the molecules. This results in photoaligning films

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which are robust and possess good aligning properties making them particularly suitable for the new generation of liquid crystal devices. Photoalignment of Liquid Crystalline Materials covers state-of-the-art techniques and key applications, as well as the authors' own diffusion model for photoalignment. The book aims to stimulate new research and development in the field of liquid crystalline photoalignment and in so doing, enable the technology to be used in large scale LCD production. Key features:

- Provides a full examination of the mechanisms of photoalignment.
- Examines the properties of liquid crystals during photoalignment, with particular reference made to the effect on their chemical

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structure and stability. Considers the most useful photosensitive materials and preparation procedures suitable for liquid crystalline photoalignment. Presents several methods for photoalignment of liquid crystals. Compares various applications of photoalignment technology for in-cell patterned polarizers and phase retarders, transfective and micro displays, security and other liquid crystal devices. Through its interdisciplinary approach, this book is aimed at a wide range of practising electrical engineers, optical engineers, display technologists, materials scientists, physicists and chemists working on the development of liquid crystal devices. It will also appeal to

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researchers and graduate students taking courses on liquid crystals or display technologies. The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field of information display.

Complementary to the aims of the society, the Wiley-SID series is intended to explain the latest developments in information display technology at a professional level. The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics

A new edition of the most popular book of project management case

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studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide

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range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project

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Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.) Now in its new third edition, Probability and Measure offers advanced students, scientists, and engineers an integrated introduction to measure theory and probability. Retaining the unique approach of the previous editions, this text interweaves material on probability and measure, so that probability problems generate an interest in measure theory and measure theory is then developed and applied to probability. Probability and Measure provides thorough coverage of probability, measure,

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integration, random variables and expected values, convergence of distributions, derivatives and conditional probability, and stochastic processes. The Third Edition features an improved treatment of Brownian motion and the replacement of queuing theory with ergodic theory.· Probability· Measure· Integration· Random Variables and Expected Values· Convergence of Distributions· Derivatives and Conditional Probability· Stochastic Processes

This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology. On about 1,000 pages, it collects the fundamental

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concepts and key technologies related to advanced electronic materials and devices. The obvious strength of the book is its encyclopedic character, providing adequate background material instead of just reviewing current trends. It focuses on the underlying principles which are illustrated by contemporary examples. The third edition now holds 47 chapters grouped into eight sections. The first two sections are devoted to principles, materials processing and characterization methods. Following sections hold contributions to relevant materials and various devices, computational concepts, storage systems, data transmission, imaging systems and displays.

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Each subject area is opened by a tutorial introduction, written by the editor and giving a rich list of references. The following chapters provide a concise yet in-depth description in a given topic. Primarily aimed at graduate students of physics, electrical engineering and information technology as well as material science, this book is equally of interest to professionals looking for a broader overview. Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields.

Mechanics of Microsystems
Integrating Cost and Schedule in
Construction
From Micro-optics to
Nanophotonics

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Mobile Displays

Virtual Reality and Augmented
Reality

The Power of Design

The key to successful project control is the fusing of cost to schedule whereby the management of one helps to manage the other. Project Control: Integrating Cost and Schedule in

Construction explores the reasons behind and the methodologies for proper planning, monitoring, and controlling both project costs and schedule. Filling a current void the topic of project control applied to

the construction industry, it is essential reading for students and professionals alike.

Industrial electronics systems govern so many different functions that vary in complexity-from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition combines traditional and new
Here, more than 20 experts

from leading research institutes around the world present the entire scope of this rapidly developing field. In so doing, they cover a wide range of topics, including the characterization and investigation of structural, dielectric and piezoelectric properties of ceramic materials, a well as phase transitions, electrical and optical properties and microscopic investigations. Another feature is a complete profile of the properties of polar oxides -- from their proof to their

latest applications.

Throughout, the authors review, discuss and assess the material properties with regard to new and advanced characterization and imaging techniques. For physicists, physicochemists, semiconductor and solid state physicists, materials scientists, and students of chemistry and physics.

The second edition of the highly acclaimed Wind Power in Power Systems has been thoroughly revised and expanded to reflect the latest challenges associated with increasing wind power

penetration levels. Since its first release, practical experiences with high wind power penetration levels have significantly increased. This book presents an overview of the lessons learned in integrating wind power into power systems and provides an outlook of the relevant issues and solutions to allow even higher wind power penetration levels. This includes the development of standard wind turbine simulation models. This extensive update has 23 brand new chapters in

cutting-edge areas including offshore wind farms and storage options, performance validation and certification for grid codes, and the provision of reactive power and voltage control from wind power plants. Key features: Offers an international perspective on integrating a high penetration of wind power into the power system, from basic network interconnection to industry deregulation; Outlines the methodology and results of European and North American large-scale grid

integration studies; Extensive practical experience from wind power and power system experts and transmission systems operators in Germany, Denmark, Spain, UK, Ireland, USA, China and New Zealand; Presents various wind turbine designs from the electrical perspective and models for their simulation, and discusses industry standards and world-wide grid codes, along with power quality issues; Considers concepts to increase penetration of wind power in power

systems, from wind turbine, power plant and power system redesign to smart grid and storage solutions. Carefully edited for a highly coherent structure, this work remains an essential reference for power system engineers, transmission and distribution network operator and planner, wind turbine designers, wind project developers and wind energy consultants dealing with the integration of wind power into the distribution or transmission network. Up-to-date and comprehensive, it is also useful for graduate

students, researchers, regulation authorities, and policy makers who work in the area of wind power and need to understand the relevant power system integration issues.

Fundamentals and Applications

Myths and Realities

Power Electronics and

Optoelectronic Devices

Innovative Presentations For Dummies

Projection Mapping

Applied Digital Optics

Microdisplays are displays requiring optical magnification and OLEDs

(Organic Light-Emitting Diode) are self-

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emitting displays where each pixel includes a LED made of organic material, in general composed of small-molecule organic material. This title reviews in detail how OLED microdisplays are made as well as how they are used. All aspects from theory to application will be addressed: basic principles, display design, display fabrication, operation and performances, present and future applications. The book will be useful to anyone interested in this rapidly developing field, such as students or researchers, industry professionals (engineers, project leaders) in the field of display development/fabrication and display end-users.

State-of-the-art text introducing readers to the rapidly developing field of pico-projection displays Pico-projection Systems provides readers with a good understanding of all the competing

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technologies in a clear and accessible manner. The author introduces and reviews the components involved in picoprojectors, including LEDs, lasers, microdisplays, optical components, etc. How all of these components work together as complete systems is then illustrated. A strong focus is put on image quality and system efficacy. The author introduces the history, motivations and applications of pico-projector technology, before exploring the two main pico-projector technologies, LED-based and laser-based projection architectures and within each of these chapters, a comprehensive technical review is provided of the state-of-the-art together with the fundamental characteristics and constraints in order to facilitate objective comparison. Explains the basic concepts behind pico-projectors as well as exploring both the safety implications

and potential markets. Focus on system level considerations rather than component level issues. Includes LED-based and laser-based projection architectures, representing the two major candidate technologies currently under active development with comparable subsections for each to help highlight the comparative merits of the technologies. Essential reading for product development professionals in the consumer electronics and displays industries

Nanoelectronics and Information Technology

The Industrial Electronics Handbook - Five Volume Set

Nitride Semiconductor Technology