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become industry standard technology
for large televisions

Explains the fundamentals and
practical applications of flat and
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lighting Organic light-emitting diodes
(OLEDs) have emerged as the leading

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technology for the new display and lighting market. OLEDs are solid-state devices composed of thin films of organic molecules that create light with the application of electricity. OLEDs can provide brighter, crisper displays on electronic devices and use less power than conventional light-emitting

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Applications (LEDs) or liquid crystal displays (LCDs) used today. This book covers both the fundamentals and practical applications of flat and flexible OLEDs. Key features: Covers all of the aspects necessary to the design and manufacturing of OLED displays and lighting. Explains the fundamental

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Active matrix liquid crystal displays

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(AMLCDs) are the preferred choice when thin, low power, high quality, and lightweight flat panel displays are required. Here is the definitive guide to the theory and applications of AMLCDs. Contemporary portable communication and computing devices need high image quality, light weight,

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A Comprehensive Source for Taking
on the Next Stage of OLED R&D
OLED Fundamentals: Materials,
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light-emitting diodes (OLEDs), from fundamental chemistry 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

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Applications, devices, and design and fabrication methods for high-efficiency lighting. The first part of the book covers all the construction materials of OLED devices, from substrate to encapsulation. For the first time in book form, the second part addresses challenges in devices and

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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

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

Compared to traditional electrical
filaments, arc lamps, and fluorescent
lamps, solid-state lighting offers higher
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environmentally friendly technology.
LED / solid-state lighting is poised to
take over conventional lighting due to
cost savings—there is pretty much no
debate about this. In response to the
recent activity in this field,
Fundamentals of Solid-State Lighting:
LEDs, OLEDs, and Their Applications

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Applications and Displays covers a range of solid-state devices, technologies, and materials used for lighting and displays. It also examines auxiliary but critical requirements of efficient applications, such as modeling, thermal management, reliability, and smart lighting. The book

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discusses performance metrics of LEDs such as efficiency, efficacy, current–voltage characteristics, optical parameters like spectral distribution, color temperature, and beam angle before moving on to luminescence theory, injection luminescence, radiative and non-radiative

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recombination mechanisms, recombination rates, carrier lifetimes, and related topics. This lays down the groundwork for understanding LED operation. The book then discusses energy gaps, light emission, semiconductor material, special equipment, and laboratory facilities. It

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Applications also covers production and applications of high-brightness LEDs (HBLEDs) and organic LEDs (OLEDs). LEDs represent the landmark development in lighting since the invention of electric lighting, allowing us to create unique, low-energy lighting solutions, not to talk about

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their minor maintenance expenses.

The rapid strides of LED lighting technology over the last few years have changed the dynamics of the global lighting market, and LEDs are expected to be the mainstream light source in the near future. In a nutshell, the book traces the advances in LEDs,

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OLEDs, and their applications, and presents an up-to-date and analytical perspective of the scenario for audiences of different backgrounds and interests.

In the extensive fields of optics, holography and virtual reality,

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technology continues to evolve.

Displays: Fundamentals and Applications, Second Edition addresses these updates and discusses how real-time computer graphics and vision enable the application and displays of graphical 2D and 3D content. This book

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explores in detail these technological developments, as well as the shifting techniques behind projection displays, projector-camera systems, stereoscopic and autostereoscopic displays. This new edition contains many updates and additions reflecting the changes in fast developing areas

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Applications such as holography and near-eye displays for Augmented and Virtual reality applications. Perfect for the student looking to sharpen their developing skill or the master refining their technique, Rolf Hainich and Oliver Bimber help the reader understand the basics of optics, light

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Application, visual perception, display technologies, and computer-generated holography. With almost 500 illustrations Displays will help the reader see the field of augmentation and virtual reality display with new eyes. Features: • Covers physics, technology and techniques behind flat-

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The field of organic and printed electronics is well established in terms

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Applications of academic, scientific, and technological research but is still an emerging one in terms of mass industrial applications such as OLED displays and lighting and organic photovoltaics. This book provides a comprehensive introduction to organic and printed electronics, their

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fundamental aspects, core technologies, and applications, and it is the first book of its kind specifically designed to address students in their final undergraduate or beginning graduate studies, as well as engineers interested in approaching this field.

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Display technology is evolving at an impressive rate with LCD and flat panel technologies gaining an increasing market share over traditional CRT display applications. Focusing on the development of new industry standards, this timely exposition of display systems and

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Applications covers display timings, interfaces, specifications, measurement procedures and all forms of display control and identification. Reviews interface and graphics subsystem standards, including FPGI (Flat Panel Display Interface), P&D (Plug and Display) and

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Intel's Digital Video Interface (DVI)
Compares and contrasts current and
future developments of television and
computer industry standards
Describes the major new display
system applications (HDTV, notebook
computer, cellphone, cockpit
instrumentation etc) and illustrates

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how user needs have dictated technological requirements (eg power, size and bistability) Provides an accessible treatment of current and future display device development, including guidance on selecting devices for particular applications
Designed to meet the needs of

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professionals using and implementing display technologies and as a reference for those developing new display systems, this text is a valuable resource for display technology developers and system integrators, video graphics interface engineers and professionals. The comprehensive

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coverage of this leading edge topic makes it also of interest to postgraduate students in Computer Science and Electrical Engineering. The Society for Information Display (SID) is an international society, which has the aim of encouraging the development of all aspects of the field

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Applications 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

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through systems and prototypes to
standards and ergonomics

This textbook provides a basic understanding of the principles of the field of organic electronics, through to their applications in organic devices. Useful for both students and

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Applications, it is a teaching text as well as an invaluable resource that serves as a jumping-off point for those interested in learning, working and innovating in this rapidly growing field. Organics serve as a platform for very low cost and high performance optoelectronic and electronic devices

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Applications that cover large areas, are lightweight, and can be both flexible and conformable to fit onto irregularly shaped surfaces such as foldable smart phones. Organic electronics is at the core of the global organic light emitting device (OLED) display industry. OLEDs also have potential

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Applications as lighting sources. Other emerging organic electronic applications include organic solar cells, and organic thin film transistors useful in medical and a range of other sensing, memory and logic applications. This book is a product of both one and two semester courses

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that have been taught over a period of more than two decades. It is divided into two sections. Part I, Foundations, lays down the fundamental principles of the field of organic electronics. It is assumed that the reader has an elementary knowledge of quantum mechanics, and electricity and

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magnetism. A background knowledge of organic chemistry is not required. Part II, Applications, focuses on organic electronic devices. It begins with a discussion of organic thin film deposition and patterning, followed by chapters on organic light emitters, detectors, and thin film transistors. The

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Last chapter describes several devices and phenomena that are not covered in the previous chapters, since they lie somewhat outside of the current mainstream of the field, but are nevertheless important.

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