Oled Displays Fundamentals And Applications

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A look at a dead OLED display.

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This new edition specifically addresses the most recent and relevant developments in the design and manufacture of OLED displays. Provides knowledge of OLED fundamentals and related technologies for applications such as displays and solid state lighting along with processing and manufacturing technologies; Serves as a reference for people engaged in OLED research, manufacturing, applications and marketing

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Topics include emission mechanism, material selection, device processing, manufacturing issues and countermeasures and display design basics. In addition, the book defines elements of OLED such as Thin Film Transistor (TFT) backplane design and processing details, including Low Temperature Poly Silicon (LTPS) process and ⋯

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OLED Display Fundamentals and Applications ¦ Takatoshi ...
6.4 OLED Television Applications 162. 6.4.1 Performance Target 163. 6.4.2 High-Yield Manufacturing by White + Color Filter Method 164. 6.5 Next-Generation TFT Technologies for OLED Display 175. 6.5.1

Sequential Lateral Solidifi cation (SLS) Method 175. 6.5.2 Microcrystalline and Superamorphous Silicon 176. 6.5.3 Solid-Phase Crystallization 178

OLED Display: Fundamentals and Applications ¦ Wiley
This new edition specifically addresses the most recent and relevant developments in the design and manufacture of OLED displays Provides knowledge of OLED fundamentals and related technologies for applications such as displays and solid state lighting along with processing and manufacturing technologies Serves as a reference for people engaged in OLED research, manufacturing, applications and marketing Includes coverage of white + color filter technology, which has become industry standard ...

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Explains the fundamentals and practical applications of flat and flexible OLEDs for displays and lighting Organic light-emitting diodes (OLEDs) have emerged as the leading 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 diodes (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 basic technologies and also related technologies which might contribute to the next innovation in the industry. Provides several indications for future innovation in the OLED industry. Includes coverage of OLED vacuum deposition type and solution type materials. The book is essential reading for early career engineers developing OLED devices and OLED related technologies in industrial companies, such as OLED device fabrication companies.

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

Active matrix liquid crystal displays (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, thin, and low power flat panel displays. The answer to this need is the color active matrix liquid crystal display (AMLCD). The rides of AMLCD technology over less than two decades to undisputed dominance as a flat panel display has been breathtaking, and designers of portable devices need a thorough understanding of the theory and applications of AMLCDs. Willem den Boer, a holder of over 30 patents in imaging technologies, has created this guide to AMLCD theory, operating principles, addressing methods, driver circuits, application circuits, and alternate flat display technologies (including active matrix flat panel image sensors). Numerous design and applications examples illustrate key points and make them relevant to real-world engineering tasks. Need more information on Mobile Displays, go to: http://www.insightmedia.info/newsletters.php#mdr · Systematically discusses the principles of liquid crystal displays and active matrix addressing. · Describes methods of enhancing AMLCD image quality. · Extensive coverage of AMLCD manufacturing techniques. · Thorough examination of performance characteristics and specifications of AMLCDs.

This book provides a comprehensive and up-to-date guide to the AMOLED technologies and applications which have become industry standard in a range of devices, from small mobile displays to large televisions. Unlike other books on the topic, which cover the fundamentals, materials, processing, and manufacturing of OLEDs, this one-stop book discusses the core components, such as TFT backplanes, OLED materials and devices, and driving schematics together in one volume with chapters written by experts from leading international companies in the field of OLED materials and OLED TVs. It also examines emerging areas, such as micro-LEDs, displays using quantum dots, and AR & VR displays. Presenting the latest research trends as well as the basic principles of each topic, this book is intended for undergraduate and postgraduate students taking display-related courses, new researchers, and engineers in related fields.

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

In the last decade, new displays have been developed at an ever-increasing pace: bulky cathode ray tubes have been replaced by flat panels and mobile phones, tablets, and navigation systems have proliferated. Seeing this explosion raises tantalizing questions about the future evolution of visual displays: Will printed displays be sold by the square yard and glued to the wall? Will disposable displays, powered by printed batteries and with built-in storage chips, talk to us from cereal boxes? Will we begin wearing display glasses that simulate any kind or number of virtual displays we would ever need? Will chip implants directly interface to our brains, eliminating the need for any displays at all? These and other questions are explored in Displays: Fundamentals & Applications, which describes existing and emerging display technology. The book begins by presenting the basics of wave optics, geometric optics, light modulation, visual perception, and display measures, along with the principles of holography. It then describes the technology and techniques behind projection displays, projector-camera systems, stereoscopic and autostereoscopic displays, computer-generated holography, and near-eye displays. In addition, the authors discuss how real-time computer graphics and computer vision enable the visualization of graphical 2D and 3D content. The text is complemented by more than 400 rich illustrations, which give readers a clear understanding of existing and emerging display technology.

An unprecedented look into the basic physics, chemistry, andtechnology behind the LCD Most notably used for computer screens, televisions, and mobilephones, LCDs (liquid crystal displays) are a pervasive andincreasingly indispensable part of our lives. Providing both anhistorical and a business-minded context, this extensive resourcedescribes the unique scientific and engineering techniques used tocreate these beautiful, clever, and eminently useful devices. In this book, the history of the science and technology behindthe LCD is described in a prelude to the development of the device,presenting a rational development theme and pinpointinginnovations. The book begins with Maxwell's theory ofelectromagnetism, and the ultimately profound realization thatlight is an electromagnetic wave and an electromagnetic wave islight. The power of mathematical physics thus was brought to bear uponthe study of light, and particularly the polarization of light bymaterial bodies, including liquid crystals. After a briefhistorical description of polarization, a physical interpretationprovides substance to the mathematical concepts. Subsequentchapters cover: Thermodynamics for liquid crystals The Maier-Saupe mean field, phenomenological, static continuum,and dynamic continuum theories The transistor and integrated circuit Glass, panels, and modules The calculus of variations The active matrix Semiconductor fabrication The global LCD business Additionally, the book illustrates how mathematics, physics, andchemistry are put to practical use in the LCDs we use every day. Bydescribing the science from an historical perspective and inpractical terms in the context of a device very familiar toreaders, the book presents an engaging and unique view of thetechnology for everyone from science students to engineers, productdesigners, and indeed anyone curious about LCDs. Series Editor: Anthony C. Lowe, The Lambent Consultancy,Braishfield, UK The Society for Information Display (SID) is an internationalsociety, which has the aim of encouraging the development of allaspects of the field of information display. Complementary to theaims of the society, the Wiley-SID series is intended to explainthe latest developments in information display technology at aprofessional level. The broad scope of the series addresses allfacets of information displays from technical aspects throughsystems and prototypes to standards and ergonomics.