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Gwadar emerging as the ' focal point of development': PM

Imran Khan ...

Gwadar emerging as the ' focal point of development ' : PM

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Imran Khan

QY Research recently generated a research report titled LED String Light market The research report represents the potential growth opportunities that prevail in the global market The report is ...

2021 LED String Light Market incorporates the Key Manufacturers MK Illumination, Lights4fun, TASCOC Industries Inc

According to this study, over the next five years the LED Stage Illumination market will register a 8.6%% CAGR in terms of revenue, the global market size will reach \$ 1339.9 million by 2025, from \$...

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LED Stage Illumination Market Size to Reach 1339.9 Million USD by 2025

THE Transport Secretary has supported a decision to make masks compulsory on the London Underground, despite his own Government scrapping the mandatory wearing of face coverings.

Sadiq Khan ' s mask rules for London transport backed by Grant Shapps

In ad 1205, Mongol ruler Genghis Khan, having completed the unification of his Gobi Desert empire, began looking south toward China for further conquest. The ever-truculent Mongols had been a thorn in ...

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Want to Understand Asian Geopolitics? Go Back to Genghis Khan

Actress Dia Mirza and her husband Vaibhav Rekhi welcomed their first child on May 14. The couple was blessed with a baby boy and they named him Avyaan ...

Dia Mirza and Vaibhav Rekhi welcome baby boy: Anushka Sharma, Kareena Kapoor Khan and other B-town celebs congratulate the couple

Was Mirza Asadullah Khan Ghalib ' s young poetic voice different ... Let us examine the following verses: This verse pushes our understanding of awareness and its relationship with perception ...

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COLUMN: THE YOUNG GHALIB

In light of this control ... of business are especially troubling." Khan will now become the youngest person to lead the commission, which has been led by acting chair Rebecca Kelly Slaughter ...

Amazon critic Lina Khan named chair of FTC
Plans for Khan's elevation as chair came to light when Sen ... Klobuchar praised Khan's "deep understanding" of the tech platforms as "vital" to helping strengthen antitrust enforcement.

Huge win for progressives as Lina Khan takes helm at FTC
A highly reliable source close to the PCB told PTI that Younis

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wanted to join the team ' s bio-bubble few days later and that conversation with a board official led to him stepping down as batting ...

Alleged misbehaviour by PCB official led to Younis Khan quitting as batting coach
her understanding that it ' s really important to have an empirical foundation of evidence, not from weird, opaque models, but from talking to people that are in these markets. In 2017, Khan wrote ...

Could “ the Simone Biles of antitrust ” break up Amazon?
ISLAMABAD: Prime Minister Imran Khan on Tuesday said Pakistan would ... mutual trust, and mutual understanding, ”

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the prime minister said in his letter to his Chinese counterpart.

Pakistan will never join US-led alliance against China: PM
The actor's death has led ... Sara Ali Khan, Shraddha Kapoor and Rakul Preet Singh for questioning in a drug-related case. The NCB, which began the probe after a drugs angle came to light in ...

Mumbai police's probe, Rhea's arrest, CBI's investigation and more: Here's the complete timeline of Sushant Singh Rajput death case

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light of the COVID-19 pandemic, Sadiq Khan also decided to take a voluntary pay ...

Sadiq Khan salary: London Mayor UPS his own wages to eye-watering sum

Unfortunately, the second wave led to a halt again ... And now it has come to light that Aamir Khan, too, will follow in his son Junaid Khan ' s footsteps. A source says, “ Aamir will resume ...

Laal Singh Chaddha: Aamir Khan & Team Pace Up To Shoot Crucial Portions From Today!

Among the most significant is a new push by the Justice Department, led by Associate Attorney ... has implications not

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only for retrospectively understanding this pandemic but for future pandemic ...

Covid-19 News: Israel, a World Leader in Vaccinations, Faces a New Outbreak

Alleged misbehaviour of a Pakistan Cricket Board official with Younis Khan led to the former captain ... series in England due to the Memorandum of Understanding (MoU) with the England and Wales ...

Understanding LED Illumination elucidates the science of lighting for light emitting diodes. It presents concepts,

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theory, simulations, and new design techniques that shine the spotlight on illumination, energy efficiency, and reducing electrical power consumption. The text provides an introduction to the fundamentals of LED lamp design, and highli

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Promoting the design, application and evaluation of visually and electrically effective LED light sources and luminaires for general indoor lighting as well as outdoor and vehicle lighting, this book combines the knowledge of LED lighting technology with human perceptual aspects for lighting scientists and engineers. After an introduction to the human visual system and current radiometry, photometry and color science, the basics of LED chip and phosphor technology are described followed by specific issues of LED radiometry and the optical, thermal and electric modeling of LEDs. This is supplemented by the relevant practical issues of pulsed LEDs, remote phosphor LEDs and the aging of LED light sources. Relevant human visual aspects closely related to LED technology are described in detail for the photopic and

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the mesopic range of vision, including color rendering, binning, whiteness, Circadian issues, as well as flicker perception, brightness, visual performance, conspicuity and disability glare. The topic of LED luminaires is discussed in a separate chapter, including retrofit LED lamps, LED-based road and street luminaires and LED luminaires for museum and school lighting. Specific sections are devoted to the modularity of LED luminaires, their aging and the planning and evaluation methods of new LED installations. The whole is rounded off by a summary and a look towards future developments.

Recent improvements in LED technology have made them as ubiquitous as cell phones. In fact, LEDs light up almost all

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cell phones screens. The technology ' s myriad applications and low energy use have made it nearly impossible to get through daily chores without coming in contact with LEDs. Probable advances include increased ability of the technology to support more efficient lighting and enhanced communications. With balanced coverage of the basics and future developments, Introduction to Light Emitting Diode Technology and Applications takes you on a tour of the LED evolution. The book begins with a brief history of the effort to enable the device that generates light through modern organic LEDs and reviews the fundamentals and principles of light prior to a detailed explanation of how LEDs generate different colors. After forming this basic foundation, the book examines the key LEDs in lighting and communications.

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It then discusses the latest opportunities and advancements in high brightness (HB) LED technology, solid state lighting, and handheld electronic applications. As we approach a new decade the role of LEDs is literally set to explode, with organic light emitting diodes emerging as a leading next generation technology for electronic displays and lighting. Challenges still exist, including light extraction, luminosity, and white light generation, not to mention non-technical obstacles such as IP disputes and the lack of standards. This book provides a foundation for resolving these issues and developing new applications for LEDs in the promising general illumination market.

Compared to traditional electrical filaments, arc lamps, and

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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,

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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

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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.

This book focuses on light-emitting diode (LED) lighting, mainly for the commercial production of horticultural crops in plant factories and greenhouses with controlled environments, giving special attention to: 1) plant growth and development as affected by the light environment; and 2) business and technological opportunities and challenges with regard to LEDs. The book contains more than 30

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chapters grouped into seven parts: 1) overview of controlled-environment agriculture and its significance; 2) the effects of ambient light on plant growth and development; 3) optical and physiological characteristics of plant leaves and canopies; 4) greenhouse crop production with supplemental LED lighting; 5) effects of light quality on plant physiology and morphology; 6) current status of commercial plant factories under LED lighting; and 7) basics of LEDs and LED lighting for plant cultivation. LED lighting for urban agriculture in the forthcoming decades will not be just an advanced form of current urban agriculture. It will be largely based on two fields: One is a new paradigm and rapidly advancing concepts, global technologies for LEDs, information and communication technology, renewable

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energy, and related expertise and their methodologies; the other is basic science and technology that should not change for the next several decades. Consideration should be given now to future urban agriculture based on those two fields. The tremendous potentials of LED lighting for urban agriculture are stimulating many people in various fields including researchers, businesspeople, policy makers, educators, students, community developers, architects, designers, and entrepreneurs. Readers of this book will understand the principle, concept, design, operation, social roles, pros and cons, costs and benefits of LED lighting for urban agriculture, and its possibilities and challenges for solving local as well as global agricultural, environmental, and social issues.

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Energy Storage Devices for Renewable Energy-Based Systems: Rechargeable Batteries and Supercapacitors, Second Edition is a fully revised edition of this comprehensive overview of the concepts, principles and practical knowledge on energy storage devices. The book gives readers the opportunity to expand their knowledge of innovative supercapacitor applications, comparing them to other commonly used energy storage devices. With new application case studies and definitions, this resource will strengthen your understanding of energy storage from a practical, applications-based point-of-view without requiring detailed examination of underlying electrochemical equations. Users will learn about various design approaches

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and real-time applications of ESDs. Electronic engineering experts and system designers will find this book useful to deepen their understanding on the application of electronic storage devices, circuit topologies, and industrial device data sheets to develop new applications. The book is also intended to be used as a textbook for masters and doctoral students who want to enhance their knowledge and understanding the concepts of renewable energy sources and state-of-the-art ESDs. Provides explanations of the latest energy storage devices in a practical applications-based context Includes examples of circuit designs that optimize the use of supercapacitors Highlights the unique benefits of these devices

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Plant Factory: An Indoor Vertical Farming System for Efficient Quality Food Production, Second Edition presents a comprehensive look at the implementation of plant factory (PF) practices to yield food crops for both improved food security and environmental sustainability. Edited and authored by leading experts in PF and controlled environment agriculture (CEA), the book is divided into five sections, including an Overview and the Concept of Closed Plant Production Systems (CPPS), the Basics of Physics and Physiology – Environments and Their Effects, System Design, Construction, Cultivation and Management and Plant Factories in Operation. In addition to new coverage on the rapid advancement of LED technology and its application in indoor vertical farming, other revisions to the new edition

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include updated information on the status of business R&D and selected commercial PFALs (plant factory with artificial lighting). Additional updates include those focused on micro and mini-PFALs for improving the quality of life in urban areas, the physics and physiology of light, the impact of PFAL on the medicinal components of plants, and the system design, construction, cultivation and management issues related to transplant production within closed systems, photoautotrophic micro-propagation and education, training and intensive business forums on PFs. Includes coverage of LED technology Presents case-studies for real-world insights and application Addresses PF from economics and planning, to operation and lifecycle assessment

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The lighting of both exteriors and interiors is a field within electrical and lighting engineering, where important technological changes have been taking place oriented towards environmental sustainability and energy efficiency. LED technology has been gradually gaining ground in the world of lighting over other technologies due to its high lighting and energy efficiency and savings. However, some problems related to overheating or associated regulation are emerging. This has prompted the search for new, more efficient, and sustainable forms of lighting. This book presents successful cases related to energy efficiency and lighting that may be of great interest to those trying to enter the world of scientific research.

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A visual, real-world guide to professional lighting design Lighting Design Basics is the essential guide to this basic, but difficult-to-master aspect of interior design. Offering fundamental concepts and prescriptive techniques in a highly visual format, this book provides clear, practical guidance on utilizing the latest in lighting techniques and technology to showcase a space without sacrificing utility. Covering more than 25 different design scenarios with in-depth rationale for proposed solutions, this book provides insightful distribution diagrams, floor plans, and details for lighting installation and construction. Real-world case studies illustrate lighting design in residential, commercial, healthcare, education, and hospitality settings, and skill-building exercises offer practice for real-world projects as

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well as NCIDQ and NCARB exam preparation. This new third edition includes new instructor support materials, coverage of computer calculation software, and in-depth discussion on the latest in LED lighting. Lighting is changing, both in the technology itself, and in the way a designer must approach it. This book provides immersive instruction through real-world settings, and practical guidance suited for immediate application in everyday projects. Get up-to-date on the latest methods and technology for lighting design Examine more than 25 design scenarios for different types of spaces Complete exercises to hone your skills or prepare for the NCIDQ or NCARB Create simple lighting designs and collaborate with architects on complex projects Lighting can make or break a space. Improper lighting lends a space an

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uncomfortable feel, can induce headaches or eyestrain, and can even be hazardous—but thoughtfully designed and executed lighting adds that extra element so often missing from typical spaces. Lighting Design Basics shows you how to elevate any space through the fundamental tools and concepts of professional lighting design.

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