

Led Lighting Resistive Solutions Avnet

LED Lighting Tran Quoc Khanh 2014

Fundamentals of Solid-State Lighting Vinod Kumar Khanna

2014-06-03 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.

Led Lighting and Drivers J Marcos Alonso 2019-11-27

The book is organized in four chapters. Chapter 1 deals with an introduction to light and lighting. As a power electronics engineer working on LEDs and lighting systems in general, I think it is important for the reader to have the basic knowledge about lighting systems, which I have tried to summarize in this chapter. Because of the extremely interesting possibilities of LEDs to generate different light colors, Chapter 1 includes a section related to the understanding of color quantification and measurement in different color spaces. The Chapter also includes several examples on light and color calculations. In order to develop and implement a suitable LED driver, it is necessary to have a good knowledge about LED behavior and characteristics. Thus, Chapter 2 aims at providing the reader with the most important issues related to LED operation and modeling from a practical point of view. The most common LED structures and materials are presented in this chapter together with the most relevant electrical, thermal and optical characteristics, making special emphasis on those characteristics provided by LED manufacturers in their datasheets. Special sections are dedicated to light dimming and color mixing. The chapter is closed with a brief review of organic LED (OLED) technology, which is another promising LED technology nowadays. Chapter 3 is devoted to DC LED drivers, which are those LED drivers intended to supply the LED from a DC voltage source, like a battery or a DC bus. This chapter covers the three most relevant technologies that are being used to implement DC LED drivers at the present time, which are those based on linear regulators, switched capacitor regulators and switching regulators. The most relevant solutions to implement DC LED drivers are reviewed from a practical point of view. The chapter also reviews the most common control

methods applied to DC LED drivers. Examples are included by means of computer simulations based on LTspice, which is a free but powerful SPICE-based simulation software developed by former Linear Technologies Company, now part of Analog Devices. The chapter ends with a section devoted to LED configurations, namely, series, parallel and matrix configurations, which are employed to implement high-power LED lamps. Finally, Chapter 4 is dedicated to off-line LED drivers. This is the denomination given to LED drivers that are intended to operate from an AC grid voltage. These are the most complicated LED drivers since they usually require the implementation of a front-end power-factor-correction (PFC) stage followed by a downstream DC-DC converter to adapt voltage levels and provide regulated current to the LED lamp. The most important standards and regulations related to this type of LED drivers are presented at the beginning of the chapter. Then, single-stage LED drivers are studied, which can be used as a stand-alone off-line LED driver or as a first stage in a two-stage off-line LED driver. The highly-relevant problem of requiring a large storage capacitance in single-stage off-line LED drivers to cope with the double-line-frequency pulsating power originated from line voltage rectification is addressed in this chapter. Finally, integrated two-stage off-line LED drivers are presented and studied as a solution to reduce the storage capacitance of off-line LED drivers, aiming at using high-reliability film-capacitors instead of less reliable electrolytic capacitors. LTspice simulation examples are also provided in this chapter to allow the reader to have a better idea about the design and operation of this type of LED drivers.

Emerge DDP Engineered LED Solutions 2013

Hoover's Handbook of American Business Hoovers Inc 2006-12

Solid State Lighting Reliability Part 2 Willem Dirk van Driel 2017-07-20

In the past four years we have witnessed rapid development in technology and significant market penetration in many applications for LED systems. New processes and new materials have been introduced; new standards and new testing methods have been developed; new driver, control and sensing technologies have been integrated; and new and unknown failure modes have also been presented. In this book, Solid

State Lighting Reliability Part 2, we invited the experts from industry and academia to present the latest developments and findings in the LED system reliability arena. Topics in this book cover the early failures and critical steps in LED manufacturing; advances in reliability testing and standards; quality of colour and colour stability; degradation of optical materials and the associated chromaticity maintenance; characterization of thermal interfaces; LED solder joint testing and prediction; common failure modes in LED drivers; root causes for lumen depreciation; corrosion sensitivity of LED packages; reliability management for automotive LEDs, and lightning effects on LEDs. This book is a continuation of *Solid State Lighting Reliability: Components to Systems* (published in 2013), which covers reliability aspects ranging from the LED to the total luminaire or system of luminaires. Together, these two books are a full set of reference books for Solid State Lighting reliability from the performance of the (sub-) components to the total system, regardless its complexity.

EDN 2009

F & S Index United States Annual 2005

From the Laboratory to the California Marketplace Michael Siminovitch 2021

Portable Design 2005

Several Reliability Issues and Solutions for LED Lighting System □ □ □ 2013

Findex 1982

Several Reliability Issues and Solutions for Led Lighting System

Sinan Li 2017-01-26 This dissertation, "Several Reliability Issues and Solutions for LED Lighting System" by Sinan, Li, □□□, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: This thesis presents a study on several reliability issues for LED lighting systems. Firstly, a full survey on

existing LED ballast has been conducted, and critical design challenges are classified on power level basis (low/ middle/ high power). Specifically, reliability issues have been highlighted, and three major factors have been stipulated: issue of electrolytic capacitor; issue of current imbalance in parallel LED strings; issue of LED junction temperature. The information revealed in the whole survey provide important design criteria for existing LED system designs and guidance for further research directions by pointing out the critical design problems. Two possible solutions for Electrolytic-Capacitor-Less LED Ballasts are proposed regarding the first reliability issue. A series of novel passive LED ballasts are proposed. They are found to be suitable for outdoor applications, such as street lighting applications, where the ability to withstand extreme weather conditions are of major concern. When compared with those in switched mode power supplies, these passive ballasts have good power factor performance and comparatively high efficiency. In addition, an active solution has been developed for indoor applications. Its circuit topology is derived from existing differential inverter topologies and inherits same merits such as simple structure, reduced size, and low cost. Self-configurable current-mirror techniques have been derived and developed afterwards to cope with the current imbalance issue for system with parallel LED strings. In contrast with traditional current sharing methods (either linear type or switched type), the proposed techniques offer a simple solution without the need of independent current references, complicated controllers and auxiliary power supplies. These features are favored by outdoor applications and such re-configurable mirror circuits are originally designed for passive LED ballast as post-current regulators. The techniques are further extended with the ability to tolerate possible circuit failure, such as short circuit and open circuit fault. Then, a new non-contact method for the measurement of both junction-to-case thermal resistance and junction temperature in a LED device has been proposed, with respect to the third reliability issue. Traditionally the direct measurement of junction temperature in LED is not easy without the help of sophisticated methods such as laser or expensive equipment like TeraLED Transient

Thermal Tester system. In contrast, the proposed method requires only the external LED power, luminous flux, and heatsink temperature information. The method can be further adopted as a simple tool by engineers to check the internal temperature states in a practical LED system for regulation and evaluation purpose. Finally, a thermal design methodology has been developed for an LED street lamp system powered by a weakly regulated renewable small power grid. It has been successfully incorporated in the proposed passive LED ballast, such that the LED system can provide the least output luminous fluctuation against line voltage variation. It is envisaged that, with the proposed design methodology, such lighting system will not only provide high reliability, with potential lifetime exceeding 10 years, but with a proven feature of reduced light fluctuation, furthermore, it is found that the passive LED system can act as a smart load an

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