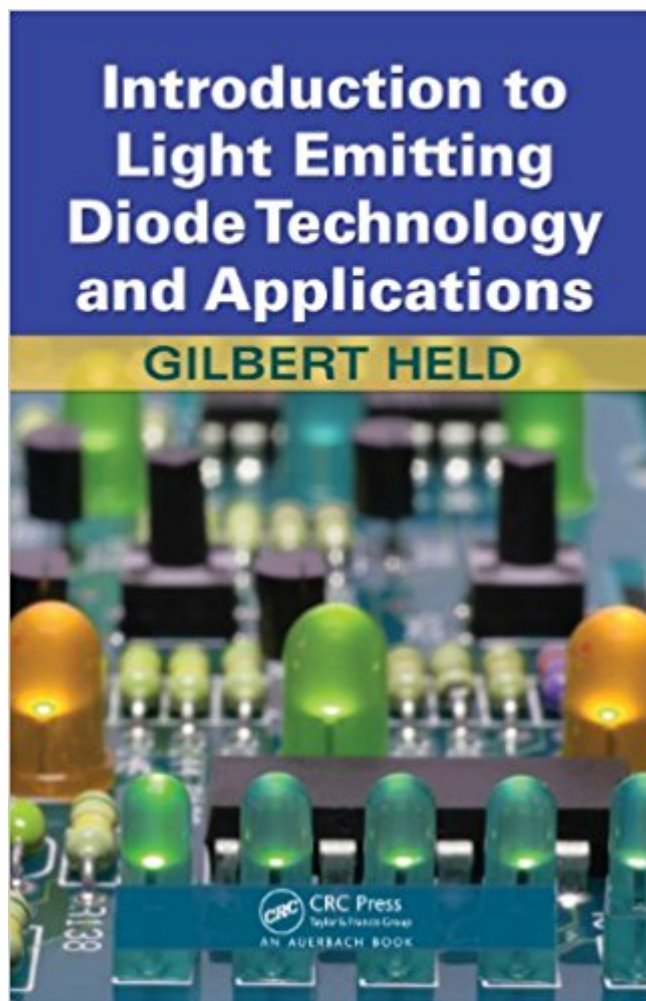


The book was found

Introduction To Light Emitting Diode Technology And Applications



Synopsis

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

Book Information

File Size: 10177 KB

Print Length: 192 pages

Publisher: Auerbach Publications; 1 edition (April 19, 2016)

Publication Date: April 19, 2016

Sold by: Digital Services LLC

Language: English

ASIN: B009AIJ9R8

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #921,843 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #17

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Customer Reviews

This book provides a simple introduction to LED technology. It is written as a reference book, so may be entered at nearly any point. Unfortunately this decision drives a lot of redundant text. The intended reader is someone with little or no background in physics - the emphasis is mainly on LED applications. Still I read the book cover to cover. It provided a foundation before digging more deeply into the physics of LED's and color perception. I did find several unit of measure errors - a sign of sloppy editing. But this does not detract from the basic intent of the book.

Great intro into the world of LEDs. Easy to read, well thought out, and relatively comprehensive. There are topics on the fundamentals of light, definition of LUMENS. LED drivers, lasers, etc. The book gets into detail but you don't need to solve any differential equations to get the idea. If you are interested in the topic, this would be a good book to start with.

I bought this book for a research for one of my graduate classes. It is very interesting. It is very easy reading too.

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