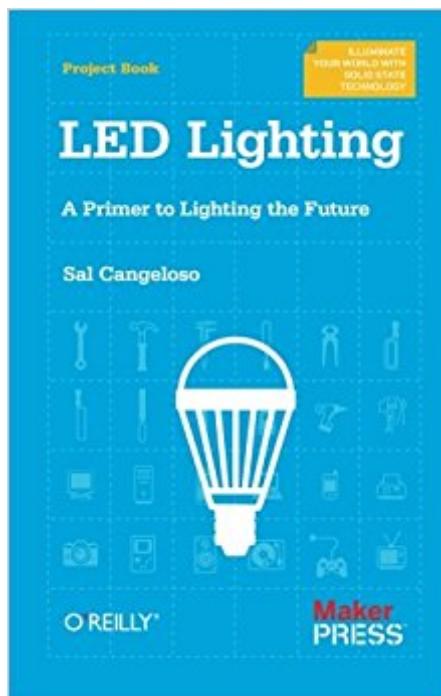


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# LED Lighting: A Primer To Lighting The Future



## Synopsis

We're on the brink of a lighting revolution with light-emitting diodes—the tiny LEDs you've seen in electronic devices for years. With this practical guide, you'll go behind the scenes to see how and why manufacturers are now designing LED devices to light everything from homes and offices to streets and warehouses. Author Sal Cangeloso shows you the working parts of a "simple" LED bulb and explains the challenges electronics companies face as they push LED lighting into the mainstream. You'll learn how you can use LEDs now, and why solid state lighting will bring dramatic changes in the near future. Explore the drivers, phosphors, and integrated circuits in a typical LED bulb. Understand the challenges in producing LED bulbs with acceptable brightness, color temperature, and power consumption. Learn about non-bulb LED applications, including lamps, street lights, and signage. Discover the market forces driving—and impeding—the adoption of LED lighting. Compare LEDs to compact fluorescent lamps (CFLs) and electron-stimulated luminescence (ESL) bulbs. Gaze into the future of intelligent lighting, including networked lighting systems.

## Book Information

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## Customer Reviews

A Primer to Lighting the Future

Sal Cangeloso is a life-long technology enthusiast who founded computer hardware site XYZcomputing.com in 2003. In 2007, he started working for Geek.com. He now runs Geek.com and

ExtremeTech.com. Sal is an inquisitive guy who loves computers, cameras, and pretty much anything electronic.

This nicely produced 58 page pamphlet illustrated with black and white photos, is authored by the manager of Geek.com and ExtremeTech.com, an enthusiastic technogeek who writes in a clear manner about both the science of LED's and their practical applications. The book provides basic info on LED's for the general reader, plus all the technical info for those who take the authors suggestion for hands on learning with an LED kit. More than enough to jump start readers into the rapidly evolving world of LED's, and get them into the hands-on DIY mode.

I was tired of constantly changing burnt out spot flood lights in our kitchen. I had used CFL lights in many of our other lamps and greatly reduced the problems of short life of conventional incandescent bulbs. However, I did not have a good way to dispose of the bulbs which contain mercury. Therefore, I was interested in finding a better solution for replacing old incandescent bulbs. I had been using a LED night light in our bathroom successfully for several years. After reading this book and its review of various bulbs, I ordered a bunch from Home Depot. The color of the CREE LED flood light matches warm white of our older bulbs.

There was a lot of great information in this book, not at all hard to understand. The LED bulb has changed so much and so fast and gives you insight to a good amount of that with interesting facts of how they are better yet complex. I would recommend this to friends and co-workers. (I work in Ikea lighting) love to learn all about these products so I can say for certain what I am selling or buying. Thanks for making this book.

This is a little book that contains a lot of information. I appreciate its brevity because I was able to finish it over the weekend, but I came away much better informed about the latest lighting technology and why it's important. It also gives some background on the history of the incandescent bulb and CFLs, which is necessary context if you want to fully understand today's technology. The language isn't overly technical, but it's not dumbed-down either; it presumes a savvy reader who keeps up with technology and current events in general, and does a good job of breaking down key terms at the beginning of the book so that you have a solid foundation for further reading. I will be interested to see if there will be any follow-up to this book, given the rapidly-changing environment. Perhaps most importantly, there is also a lot of practical information in here, even on

things as seemingly-basic as how to buy a lightbulb, and how the choice you make can save money and electricity. It seems that the book is aiming to arm consumers with as much information as possible, so that they can make the best-informed decisions for their homes and offices.

This is terrible. This reads like a 6th graders report for science class, offers little to no valuable information. Reads like propaganda for the LED industry.

It was short and concise and contained all the practical information needed when looking into purchasing LEDs.

Well-written and clear update on the state of LED lighting as it applies to small buildings. I learned a great deal from this concise little book, and I'm looking forward to future developments in LED lighting with this primer as my touchstone.

too expensive for a small book, did not make it clear, lack of information about the book, pages, chapters

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