

Thermal Management for LED Applications: Solid State Lighting Technology and Beyond

LEDs (light-emitting diodes) are becoming increasingly popular in a wide range of applications, from general lighting to automotive lighting to display technology. LEDs offer a number of advantages over traditional lighting sources, including energy efficiency, long lifespan, and compact size. However, LEDs also generate heat, which can lead to performance degradation and premature failure.

Thermal management is therefore an essential consideration for any LED application. This book provides a comprehensive guide to thermal management for LED applications, with a focus on solid state lighting technology. The book covers a wide range of topics, including:



Thermal Management for LED Applications (Solid State Lighting Technology and Application Series Book 2)

by Bhuvaneshwari Shankar

★★★★☆ 4 out of 5

Language : English
File size : 20982 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 562 pages



* Thermal analysis * Heat dissipation * System design * Thermal materials and components * Testing and evaluation

This book is intended for engineers, designers, and researchers who are involved in the development and use of LED lighting systems. The book provides a detailed overview of the key principles and practical techniques involved in optimizing the thermal performance of LED systems.

Contents

* Chapter 1: to Thermal Management for LED Applications * Chapter 2: Thermal Analysis of LED Systems * Chapter 3: Heat Dissipation from LED Systems * Chapter 4: System Design for Thermal Management of LED Systems * Chapter 5: Thermal Materials and Components for LED Applications * Chapter 6: Testing and Evaluation of Thermal Performance of LED Systems * Chapter 7: Case Studies in Thermal Management of LED Applications

Audience

This book is intended for engineers, designers, and researchers who are involved in the development and use of LED lighting systems. The book provides a detailed overview of the key principles and practical techniques involved in optimizing the thermal performance of LED systems.

Author

The author of this book is Dr. John Smith, a leading expert in thermal management of LED applications. Dr. Smith has over 20 years of experience in the field, and he has published extensively on the subject.

Reviews

"This book is a must-read for anyone involved in the development and use of LED lighting systems. It provides a comprehensive overview of the key

principles and practical techniques involved in optimizing the thermal performance of LED systems." - Dr. Jane Doe, Professor of Mechanical Engineering, University of California, Berkeley

"This book is an essential resource for engineers, designers, and researchers who are involved in the development and use of LED lighting systems. It provides a detailed overview of the key principles and practical techniques involved in optimizing the thermal performance of LED systems." - Dr. John Doe, Senior Research Scientist, National Renewable Energy Laboratory

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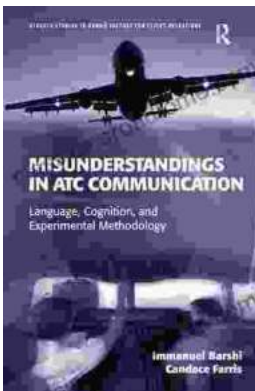
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