Freeform Optics for LED Packages and Applications
Kai Wang, Sheng Liu, Xiaobing Luo, Dan Wu

DESCRIPTION

A practical introduction to state-of-the-art freeform optics design for LED packages and applications

By affording designers the freedom to create complex, aspherical optical surfaces with minimal or no aberrations, freeform design transcends the constraints imposed by hundreds of years of optics design and fabrication. Combining unprecedented design freedom with precise light irradiation control, freeform optics design is also revolutionizing the design and manufacture of high quality LED lighting. The first and only book of its kind, Freeform Optics for LED Packages and Applications helps put readers at the forefront of the freeform optics revolution.

Designed to function as both an authoritative review of the current state of the industry and a practical introduction to advanced optical design for LED lighting, this book makes learning and mastering freeform optics skills simpler and easier than ever before with:

• Real-world examples and case studies systematically describing an array of algorithms and designs—from new freeform algorithms to design methods to advanced optical designs

• Coding for all freeform optics algorithms covered—makes it easier and more convenient to start developing points of freeform optics and construct lenses or reflectors, right away

• Case studies of a range of products, including designs for a freeform optics LED bulb, an LED spotlight, LED street lights, an LED BLU, and many more
Freeform Optics for LED Packages and Applications is must-reading for optical design engineers and LED researchers, as well as advanced-level students with an interest in LED lighting. It is also an indispensable working resource for design practitioners within the LED lighting industry.

⚠️ ABOUT THE AUTHOR

Kai Wang, Ph.D., Southern University of Science and Technology, Guangdong, China

Sheng Liu, Ph.D., Wuhan University, Hubei, China

Xiaobing Luo, Huazhong University of Science and Technology, Hubei, China

Dan Wu, Ph.D., Nanyang Technological University, Singapore

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