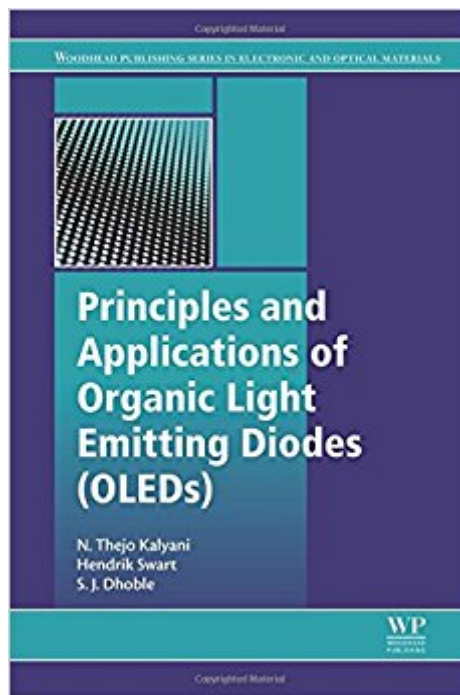




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Principles And Applications Of Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series In Electronic And Optical Materials)



Synopsis

Principles and Applications of Organic Light Emitting Diodes (OLEDs) explores the ways in which the development of organic semiconductor materials is opening up new applications in electronic and optoelectronic luminescent devices. The book begins by covering the principles of luminescence and the luminescent properties of organic semiconductors. It then covers the development of luminescent materials for OLEDs, discussing the advantages and disadvantages of organic versus inorganic luminescent materials. The fabrication and characterization of OLEDs is also covered in detail, including information on, and comparisons of, vacuum deposition and solution techniques. Finally, applications of OLEDs are explored, including OLEDs in solid-state lighting, colored lighting, displays and potential future applications, such as ultra-thin and flexible technologies. This book is an excellent resource both for experts and newcomers to the field of organic optoelectronics and OLEDs. It is ideal for scientists working on optical devices, lighting, display and imaging technologies, and for all those engaged in research in photonics, luminescence and optical materials. Provides a one-stop guide to OLED technology for the benefit of newcomers to the field of organic optoelectronics. Comprehensively covers the luminescent properties of organic semiconductors and their development into OLED materials. Offers practical information on OLED fabrication and their applications in solid-state lighting and displays, making this essential reading for optoelectronics engineers and materials scientists.

Book Information

Series: Woodhead Publishing Series in Electronic and Optical Materials

Hardcover: 332 pages

Publisher: Woodhead Publishing; 1 edition (June 1, 2017)

Language: English

ISBN-10: 0081012136

ISBN-13: 978-0081012130

Product Dimensions: 6.1 x 0.9 x 9.1 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

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Best Sellers Rank: #1,294,292 in Books (See Top 100 in Books) #86 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Optoelectronics](#) #217 in [Books > Science & Math > Physics > Light](#) #511 in [Books > Science & Math > Physics > Optics](#)

Customer Reviews

Dr. N. Thejo Kalyani is an Assistant Professor in the Department of Applied Physics at Laxminarayan Institute of Technology, Nagpur, India. Her field of research interests include the synthesis and characterization of organic phosphors and fabrication of OLEDs. She has won a number of awards for her deliberations in various national and international conferences. She has authored 10 textbooks in the field of Applied Physics. She has more than 25 publications in international peer reviewed journals. She is lifetime member of professional bodies such as the Luminescence Society of India and the Material Research Society of India. Hendrik Swart is Senior Professor of the Department of Physics at the University of the Free State in South Africa. He has more than 280 publications in international peer-reviewed journals and has chaired numerous national and international conferences. He has made major contributions to the development of processes to synthesize and deposit thin films of various types of semiconductor nanoparticles, which enhance the colour, luminescent intensity and lifetime of solid state lighting displays. Dr Dhoble is an Associate Professor at the Department of Physics, R.T.M. Nagpur University, India, where he has worked on a number of funded research projects involving the synthesis and characterization of organic luminescent materials. His other research interests include solid state lighting, the development of optoelectronic materials, and devices for measuring luminescence.

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