



Luminescence and the Light Emitting Diode: The Basics and Technology of LEDs and the Luminescence Properties of the Materials (Science of Solid State Monographs)

E. W. Williams, R. Hall

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Luminescence and the Light Emitting Diode: The Basics and Technology of LEDS and the Luminescence Properties of the Materials focuses on the basic physics and technology of light emitting diodes (LEDS) and pn junction lasers as well as their luminescence properties. Optical processes in semiconductors and the useful devices which can be made are discussed.

Comprised of 10 chapters, this book begins with an introduction to the crystal structure and growth, as well as the optical and electrical properties of LED materials. The detailed fabrication of the LED is then considered, along with the luminescence of the material and the diode light emission. Subsequent chapters explore solid-state lasers made from LED materials; the equipment used to measure luminescence, cathodoluminescence, and diode electro-optic characteristics; and luminescence in gallium arsenide, $\text{GaAs}_{1-x}\text{Px}$, and gallium phosphide. Other LED materials such as silicon carbide and ternary semiconducting compounds are also surveyed. The text concludes with a brief chapter that describes some of the applications of LEDs and LED products.

This monograph will be of value to students and non-graduate engineers with an interest in LEDs.



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