



Handbook of Nitride Semiconductors and Devices, GaN-based Optical and Electronic Devices (Volume 3)

By Hadis Morkoç

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The three volumes of this handbook treat the fundamentals, technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth. They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section. Volume 3 deals with nitride semiconductor devices and device technology. Among the application areas that feature prominently here are LEDs, lasers, FETs and HBTs, detectors and unique issues surrounding solar blind detection.

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Editorial Review

From the Back Cover

The three volumes of this handbook treat the fundamentals, technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth. They also deal with the properties and processes for thermal, optical and electrical systems, as well as magnetism and magnetic properties and spin-based device concepts. The result is a lucid presentation of the necessary basics of semiconductor and device physics and engineering, backed by an extensive reference section.

Volume 3 deals with nitride semiconductor devices and device technology. Among the application areas that feature prominently here are LEDs, lasers (including recording), FETs HBTs (including novel treatment of fundamentals and hot phonon processes affecting the velocity), detectors and unique issues surrounding solar blind detection.

This comprehensive handbook provides all interested researchers and engineers with an accessible treatment of this important class of materials.

From the contents:

- Light-Emitting Diodes and Lighting
- Semiconductor Laser
- Field Effect Transistors and Heterojunction Bipolar Transistors
- Ultraviolet Detectors

About the Author

Hadis Morkoç received his Ph.D. degree in Electrical Engineering from Cornell University. From 1978 to 1997 he was with the University of Illinois, then joined the newly established School of Engineering at the Virginia Commonwealth University in Richmond. He and his group have been responsible for a number of advancements in GaN and devices based on them. Professor Morkoç has authored several books and numerous book chapters and articles. He serves or has served as a consultant to some 20 major industrial laboratories. Professor Morkoç is, among others, a Fellow of the American Physical Society, the Material Research Society, and of the Optical Society of America.

Users Review

From reader reviews:

Robert Brown:

Spent a free time for you to be fun activity to perform! A lot of people spent their spare time with their family, or their very own friends. Usually they undertaking activity like watching television, gonna beach, or picnic from the park. They actually doing same task every week. Do you feel it? Do you wish to something different to fill your own free time/ holiday? Can be reading a book might be option to fill your free time/ holiday. The first thing you will ask may be what kinds of book that you should read. If you want to consider look for book, may be the reserve untitled Handbook of Nitride Semiconductors and Devices, GaN-based Optical and Electronic Devices (Volume 3) can be excellent book to read. May be it may be best activity to

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