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Semiconductor Optoelectronic Devices by Pallab Bhattacharya

Pallab Bhattacharya is the author of Semiconductor Optoelectronic Devices (3.97 avg rating, 119 ratings, 7 reviews, published 1993), Comprehensive Semico...

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Semiconductor optoelectronic devices - Pallab Bhattacharya ...

Reviewer: Andrew Donald Booth This new edition of a text first published in 1994 [1] covers much of the field of semiconductor lasers at a level suitable for fourth-year undergraduates and beginning graduate students in physics or electrical engineering.

Semiconductor optoelectronic devices (2nd ed.)

Most semiconductor optoelectronic devices are pn-junction diodes, and their performance depends on the properties of the pn-junction and of the semiconductor material. To better describe the operation of laser diodes, LEDs, photodiodes, etc., it is necessary to understand the basics of the processes involved.

Optoelectronic Semiconductor Devices - Principals and ...

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Pallab Bhattacharya is the Charles M. Vest Distinguished University Professor of Electrical Engineering and Computer Science and the James R. Mellor Professor of Engineering in the Department of Electrical Engineering and Computer Science at the University of Michigan, Ann Arbor. He received the M. Eng. and Ph.D. degrees from the University of Sheffield, UK, in 1976 and 1978, respectively.

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The first true introduction to semiconductor optoelectronic devices, this book provides an accessible, well-organized overview of optoelectric devices that emphasizes basic principles. Coverage begins with an optional review of key concepts—such as properties of compound semiconductors, quantum mechanics, semiconductor statistics, carrier transport properties, optical processes, and junction theory—then progress gradually through more advanced topics.

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• Pallab Bhattacharya, Semiconductor Optoelectronic Devices, Prentice Hall, 2nd edition (1996), ISBN 0134956567 (supplement on Semiconductors). • Amnon Yariv, Quantum Electronics, ISBN 0471609978, (advanced) • All material will be covered in lecture notes.

332:466/591 Optoelectronics I

Thus, this is all about the optoelectronic devices which include laser diodes, photo diodes, solar cells, LEDs, optical fibers. These optoelectronic devices are used in different electronic project kits as well as in telecommunications, military services and in medical applications.

Optoelectronics Devices with their Applications

The first true introduction to semiconductor optoelectronic devices, this book provides an accessible, well-organized overview of optoelectric devices that emphasizes basic principles. Coverage begins with an optional review of key concepts—such as properties of compound semiconductor, quantum mechanics,...

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