



Optoelectronic Devices: Design, Modeling, and Simulation

By Xun Li

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With a clear application focus, this book explores optoelectronic device design and modeling through physics models and systematic numerical analysis. By obtaining solutions directly from the physics-based governing equations through numerical techniques, the author shows how to develop new devices and how to enhance the performance of existing devices. Semiconductor-based optoelectronic devices such as semiconductor laser diodes, electroabsorption modulators, semiconductor optical amplifiers, superluminescent light emitting diodes and their integrations are all covered. Including step-by-step practical design and simulation examples together with detailed numerical algorithms, this book provides researchers, device designers and graduate students in optoelectronics with the numerical techniques to obtain solutions for their own structures.

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Editorial Review

About the Author

Xun Li is a Professor in the Department of Electrical and Computer Engineering at McMaster University, Hamilton. Since receiving his Ph.D. from Beijing Jiaotong University in 1988, he has authored and co-authored over 160 technical papers and co-founded Apollo Photonics, Inc., developing one of the company's major software products, 'Advanced Laser Diode Simulator'. He is a Member of the OSA and SPIE, and a Senior Member of the IEEE.

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