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This is the first book to be published on physical principles, mathematical models, and practical simulation of GaN-based devices. Gallium nitride and its related compounds enable the fabrication of highly efficient light-emitting diodes and lasers for a broad spectrum of wavelengths, ranging from red through yellow and green to blue and ultraviolet.

Nitride Semiconductor Devices: Principles and Simulation

In short, semiconductor devices are present in most anything that pertains to energy, communications, or information. This book is an introduction to the operating principles of these semiconductor devices. This book is appropriate for undergraduate students in engineering.

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the semiconductor of choice because it was possible to obtain high purity material. The extraordinarily large diffusion length of minority carriers in germanium provided functional structures despite the large dimensions of the early devices.

Principles of Semiconductor Devices - UFPR

Handbook of Nitride Semiconductors and Devices Vol. 1: Materials Properties, Physics and Growth ... 3 Growth and Growth Methods for Nitride Semiconductors 323 Introduction 323 3.1 Substrates for Nitride

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Nitride Semiconductor Devices: Principles and Simulation

In recent years, nitride device modeling and simulation has gained importance and advanced software tools are emerging. Similar developments occurred in the past with other semiconductors such as silicon, where computer simulation is now an integral part of device development and fabrication.

Wiley: Nitride Semiconductor Devices: Principles and

A nitride semiconductor device comprises: a layer structure including an active region (102) containing $\text{Al}_x\text{Ga}_y\text{In}_{1-x-y}\text{N}$ quantum dots layers (102 a), and means (104 a , 104 b) for applying an electric field across the active region to modify the spin orientation of excitons in the quantum dots.

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The global Gallium Nitride (GaN) semiconductor devices market size was valued at USD 974.9 million in 2016. The market is expected to experience significant growth over the next eight years, owing to the accelerating demand for power electronics that consume less power and are energy efficient.

Gallium Nitride (GaN) Semiconductor Devices Market Report

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