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Theoretical Approach to Polarization Effects in Semiconductors Piotr Boguslawski and J. Bernholc 1
Introduction Asarule ...

Theoretical Approach to Polarization Effects in Semiconductors

The effects of polarization on the fundamental electron transport properties, and on the basic optical transitions are described. The crucial role of polarization in devices such as high electron mobility transistors (HEMTs) and light-emitting diodes (LEDs) is covered.

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Moreover, polarization effects, particularly spontaneous polarization, have immense impact on measured band discontinuities. For example, the dependence of measured band discontinuities on the order in which the larger and smaller band gap semiconductors are grown, is one that can be attributed to polarization effects [34], [35], [36].

Polarization effects in nitride semiconductor device

Effect of Electronic Polarization on Charge-Transport Parameters in Molecular Organic Semiconductors Edward F. Valeev*, Veaceslav Coropceanu, Demetrio A. da Silva Filho, Seyhan Salman, and Jean-Luc Brédas

Effect of Electronic Polarization on Charge-Transport

Polarization in GaN Based Heterostructures and Heterojunction Field Effect Transistors (HFETs) Hadis Morkoc, and Jacob Leach Introduction The need for computers to handle

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Polarization Effects in Wavelength Converters based on Semiconductor Optical Amplifiers automatic polarization controller (APC) aligns the signal polarizations to the axes of a polarization beam splitter (PBS) which separates the two signals.

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