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Isaak M. Tsidilkovski

# **Electron Spectrum of Gapless Semiconductors**



Springer

# Electron Spectrum Of Gapeb Semiconductors

**Boris Alekseevich Nesterenko, Oleg  
Vía`cheslavovich Snitko**



## **Electron Spectrum Of Gapless Semiconductors:**

*Electron Spectrum of Gapless Semiconductors* J. Tsidilkovski, 2012-12-06 *Electron Spectrum of Gapless Semiconductors* presents the peculiarities of physical properties of a comparatively new class of solids gapless semiconductors GS These peculiarities are determined by the main feature of the electron spectrum namely the absence of a gap between the conduction and valence bands GSs form a boundary between metals and semiconductors On the other hand GSs are of practical interest since they are very sensitive to impurities and to the influence of light magnetic and electric fields and pressure

**Electron Spectrum of Gapless Semiconductors** J. Tsidilkovski, 1997-04-09 **Electron-hole Droplets in Semiconductors** C. D. Jeffries, Li Yu dmila Vsevolodovna Keldysh, 1983 **Amorphous Semiconductors** Kazuo

Morigaki, Sandor Kugler, Koichi Shimakawa, 2017-03-06 Amorphous semiconductors are substances in the amorphous solid state that have the properties of a semiconductor and which are either covalent or tetrahedrally bonded amorphous semiconductors or chalcogenide glasses Developed from both a theoretical and experimental viewpoint Deals with amongst others preparation techniques structural optical and electronic properties and light induced phenomena Explores different types of amorphous semiconductors including amorphous silicon amorphous semiconducting oxides and chalcogenide glasses Applications include solar cells thin film transistors sensors optical memory devices and flat screen devices including televisions

**Physical Properties of Atomically Clean Semiconductor Surface** Boris Alekseevich Nesterenko, Oleg Viacheslavovich Snitko, 1988 **Gapless Semiconductors--a New Class of Materials** Isaak Mikhaïlovich

Tsidilkovskii, 1988 **Wide Energy Bandgap Electronic Devices** Fan Ren, John C Zolper, Hadis Morkoc, 2003-07-14

This book provides a summary of the current state of the art in SiC and GaN and identify future areas of development The remarkable improvements in material quality and device performance in the last few years show the promise of these technologies for areas that Si cannot operate because of its smaller bandgap We feel that this collection of chapters provides an excellent introduction to the field and is an outstanding reference for those performing research on wide bandgap semiconductors In this book we bring together numerous experts in the field to review progress in SiC and GaN electronic devices and novel detectors Professor Morkoc reviews the growth and characterization of nitrides followed by chapters from Professor Shur Professor Karmalkar and Professor Gaska on High Electron Mobility Transistors Professor Pearton and co workers on ultra high breakdown voltage GaN based rectifiers and the group of Professor Abernathy on emerging MOS devices in the nitride system Dr Baca from Sandia National Laboratories and Dr Chang from Agilent review the use of mixed group V nitrides as the base layer in novel Heterojunction Bipolar Transistors There are 3 chapters on SiC including Professor Skowronski on growth and characterization Professor Chow on power Schottky and pin rectifiers and Professor Cooper on power MOSFETs Professor Dupuis and Professor Campbell give an overview of short wavelength nitride based detectors Finally Ji Hyun Kim and co workers describe recent progress in wide bandgap semiconductor spintronics where one

can obtain room temperature ferromagnetism and exploit the spin of the electron in addition to its charge      Electronic Structure and Optical Spectrum of Semiconductors Lockheed Missiles and Space Company. Lockheed Research Laboratories, Palo Alto, Calif, Frank Herman, 1969      *The Electronic Theory of Heavily Doped Semiconductors* Viktor Leopol'dovich Bonch-Bruевич, 1966      **Deep Levels in Semiconductors** M. Jaros, 1982

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Electron Spectrum Of Gableb Semiconductors**

In a global inundated with screens and the cacophony of instantaneous communication, the profound energy and emotional resonance of verbal art usually disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, situated within the lyrical pages of **Electron Spectrum Of Gableb Semiconductors**, a fascinating function of fictional splendor that pulses with fresh emotions, lies an unforgettable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus manuals visitors on a psychological odyssey, gently exposing the latent possible and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book's main subjects, dissect their interesting publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers' souls.

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