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semiconductor device fundamentals

#1 Semiconductor Device Physics

(Lecture 1: Semiconductor

Fundamentals) ~~Semiconductor: What~~

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12 Physics / Semiconductor Devices
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#32. PLUS TWO | PHYSICS I

CHAPTER 14 | SEMICONDUCTORS I

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brief idea about Electronic Devices

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barrier 691,692 Apodisation 754 APS
712 Arbitrary doping profile 88
Auger coefficient 565 Auger effect
258 Auger lifetime 250 Auger process
40,565,566, 603 Auger
recombination 249,250, 568
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transistors such as JFETs (junction field-effect-transistors) and MESFETs (metal-semiconductor field-effect transistors). Part IV focuses on negative-resistance and power devices. The book concludes with coverage of photonic devices and sensors, including light-emitting

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background helps students a deeper understanding of the essentials of physics and semiconductors.

Resistivity -- Carrier and doping

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Schottky barriers -- Series resistance,
channel length and width, and
threshold voltage -- Defects -- Oxide
and interface trapped charges, oxide
thickness -- Carrier lifetimes --
Mobility -- Charge-based and probe
characterization -- Optical

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