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Let's talk IoT RF testing of Sigfox modules and devices with Rohde & Schwarz.

Electronics I: Semiconductor Physics and Devices

Introduction to Semiconductor Physics and Devices In this video, I talk about the roadmap to learning semiconductor physics, and what the driving questions we are trying to ...

Fundamentals of semiconductor devices

PN Junction Introduction In this video I introduce the P/N junction: the most fundamental device on which all of modern electronics is built. I explain ...

A brief idea about Electronic Devices [Donald A Neamen] M.Dheeraj GATE 2019,ESE 2019 ECE PAPER. a brief outlook about content given in this book as per the past two three year trend of GATE ...

Kronig-Penny Model: Effective Mass Here I go cover energy/momentum diagrams in more depth, and I explain how we can use them to determine how electrons and holes ...

Finding the Electron Concentration in a Semiconductor After much trial and tribulation, I am finally able to describe how we calculate the electron concentration of an intrinsic ...

PN Junction Band Diagram In this video, I go over the band diagram of the P/N junction, which will allow us to find the electric field and the P/N ...

Studyguide for Semiconductor Physics and Devices by Neamen Donald

Charge Carrier Concentration of Doped Semiconductors In this video, I talk about how doping affects the electron and hole concentration of n-type and p-type semiconductors, and ...

Fermi Function Explained Why we use the fermi function f(E) and how I like to interpret it, in terms of the percentage of occupied states at a given ...

Continuity Equation Semiconductor Derivation Part 1 In this video, I derive the continuity equation for semiconductors in one dimension. The continuity equation describes carrier ...

Transistors, How do they work ? Dear friends, Please support us at Patreon, so that we can continue our free educational service
<https://www.patreon.com> ...

Band theory (semiconductors) explained An explanation of band theory, discussing the difference between conductors, semiconductors and insulators, including a useful ...

Electronic Devices: Energy band diagram concepts

Semiconductors, Insulators & Conductors, Basic Introduction, N type vs P type Semiconductor This chemistry video tutorial provides a basic introduction into semiconductors, insulators and conductors. It explains the ...

PN Junction Diode Explained | Forward Bias and Reverse Bias In this video, the PN Junction diode has been explained. And the working of this PN junction diode under forward and reverse bias ...

Animation | How a P N Junction semiconductor works | forward reverse bias | diffusion drift current This simple animation video clearly explains the topics P-N junction semi conductor or diode, what is forward bias and reverse ...

PN Junction Diode (No Applied Bias) Analog Electronics: PN Junction Diode (No Applied Bias) Topics Covered: 1) PN Junction. 2) PN Junction Diode. 3) Meaning of ...

Fermi level of intrinsic and extrinsic semiconductors

Electronic Devices: pn junction under equilibrium - depletion width, build-in potential

Lecture - 1 Introduction on Solid State Devices Lecture Series on Solid State **Devices** by Dr.S.Karmalkar, Department of Electrical Engineering, IIT Madras. For more details on ...

PN Junction Electric Field Profile How to calculate the electric field profile within the P/N Junction, as well as how to calculate the electric field and the ...

Doping and Band Diagrams In this video, I describe how semiconductor doping affects the band diagram of the semiconductor, and how we can use quantum ...

Density of States Derivation Part 1 In this video I derive the equation for the density of states, and I show how finding the most convoluted way possible to ...

Recombination/Generation Introduction In this video I introduce the concepts of generation and recombination (which, really, we knew about all along) and I describe ...

The Electron Wavenumber k In this video, I explain the wavenumber k, where it comes from in quantum mechanics, and why it is "incredibly" useful in ...

Carrier Drift Current: Mobility In this video I talk about the first mechanism of getting charge carriers to move in response to an applied electric field ...

Quantum Mechanics Basics In this video I give a (very) brief introduction to quantum mechanics and I describe a model for a piece of semiconductor ...

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