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Animation | How a P N junction semiconductor works | forward reverse bias | diffusion drift current

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This simple animation video clearly explains the topics P-N junction semiconductor or diode, what is forward bias and reverse ...

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Finding the Electron Concentration in a Semiconductor After much trial

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and tribulation, I am finally able to describe how we calculate the electron concentration of an intrinsic ...

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 ...

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 ...

PN Junction Diode Forward Bias Current Part 1 In this video, I begin the derivation of the P/N junction I/V characteristics, and describe how to apply the band theory of ...

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

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Law of the Junction The Law of the Junction (just a fancy name for calculating boundary conditions for charge carriers of p/n junctions). This is

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PN Junction Depletion Width In this video, I discuss how to calculate the depletion width using only the built-in potential and doping concentrations.

If ...

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