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With its strong pedagogy, superior readability, and thorough examination of the physics of semiconductor material, Semiconductor Physics and Devices, 4/e provides a basis for understanding the characteristics, operation, and limitations of semiconductor devices.

Semiconductor Physics And Devices: Basic Principles

A semiconductor material has an electrical conductivity value falling between that of a metal, like copper, gold, etc. and an insulator, such as glass.

Semiconductor - Wikipedia

There are two ways to teach semiconductor physics. The first is to start from first principles (as much as is possible) of quantum mechanics, statistical mechanics, etc., and derive for the reader the basic relationships and equations that the rest of the text relies on.

Amazon.com: Semiconductor Physics and Devices

Physics 468 and flow of charge carriers in the semiconductor devices are within the solid itself, while in the earlier vacuum tubes/valves, the mobile electrons

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Shockley Semiconductor Laboratory - Wikipedia

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(6) 20. A charge Q located at a point is in equilibrium under the combined electric field of three charges q_1, q_2, q_3 . If the charges q_1, q_2 are located at points and respectively, find the direction of the force on Q , due to q_3

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