

# Physics Of Semiconductor Devices

## Michael Shur

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a semiconductor is a material with electrical conductivity between that of a conductor and an insulator 1 its conductivity can be modified by adding impurities doping to its crystal structure

mar 27 2025 a semiconductor is a substance that can act as a conductor or insulator depending on other factors enabling it to serve as a foundation for computers and other electronic devices the

aug 10 2022 generally speaking the term semiconductor refers to a material like silicon that can conduct electricity much better than an insulator such as glass but not as well as metals like copper

mar 28 2026 semiconductor any of a class of crystalline solids intermediate in electrical conductivity between a conductor and an insulator semiconductors are employed in the manufacture of various

a semiconductor is a substance that can either act as a conductor or insulator of electricity making it an essential building block of computers electronic devices integrated circuits and other modern digital

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apr 14 2025 a semiconductor is a material that falls somewhere on the continuum between conductor and insulator enabling a controlled flow of electrical current manufacturers process semiconductor

jul 2 2025 what is a semiconductor any substance with electrical conductivity that falls halfway between that of an insulator such as rubber products or glassware and a conductor such as

semiconductor firms generally organize their activities around the two main stages of semiconductor production design and manufacturing companies that focus only on design are referred to as

jul 23 2025 in a semiconductor when an electron leaves a place due to getting energy a place is left behind which is known as a hole a hole in a semiconductor represents a region of positive charge

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