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A semiconductor material has an electrical conductivity value falling between that of a conductor, such as metallic copper, and an insulator, such as glass. Its resistivity falls as its temperature rises; metals behave the opposite. Its conducting properties may be altered in useful ways by introducing impurities ("doping") into the crystal structure. When two differently-doped regions exist ...

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Oscilloscopes, also called Digital Storage Oscilloscopes (DSOs) or Mixed Signal Oscilloscopes (MSOs), are a common type of test instrument used to capture, analyze, and troubleshoot electrical or real world physical signals.

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