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concentration by a factor 5, so most probably the mix of impurities

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Semiconductor Devices Physics and Technology

A semiconductor device is an electronic component that exploits the electronic properties of semiconductor material, principally silicon, germanium, and gallium arsenide, as well as organic semiconductors. Semiconductor devices have replaced vacuum tubes in most applications. They use electrical conduction in the solid state rather than the gaseous state or thermionic emission in a vacuum.

Semiconductor device - Wikipedia

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