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5. n-Si of a p-nSi junction has a resistivity of $1 \Omega\text{cm}$. What should be the resistivity of p-Si so that 99 % of the total width of the space charge region would be located in n-Si (p+-n junction)? For the parameters needed see problem 1.

Problems and Solutions to Physics of Semiconductor Devices

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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

Neamen's Semiconductor Physics and Devices deals with the electrical properties and characteristics of semiconductor materials and devices. The goal of this book is to bring together quantum mechanics, the quantum theory of solids, semiconductor material physics, and semiconductor device physics in a clear and understandable way.

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