

## *Principles Of Semiconductor Devices Solution Manual*

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Derivation of the Metal-Semiconductor junction current. 3.5 Metal-Semiconductor contacts. 3.5.1. Ohmic contacts 3.5.2. Tunnel contacts 3.5.3. Annealed and alloyed contacts 3.5.4. Contact resistance to a thin semiconductor layer. 3.6 Metal-Semiconductor Field Effect Transistors (MESFETs) 3.7 Schottky diode with an interfacial layer 3.8 Other unipolar junctions. 3.8.1.

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(b) The seed crystal is used to initiate the growth of the ingot with the correct crystal orientation. (c) The crystal orientation determines the semiconductor's chemical and electrical properties, such as the etch rate, trap density, breakage plane etc. (d) The tempering of the crucible and the pull rate.

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