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Fabrication of
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fabrication process 1

bulk material, eg Si,

Ge, GaAs 2 dopants to

create p-and n-type

regions 3 metallization

to make contacts 4 ...

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A semiconductor material has an

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

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Chapter 1 Solutions

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Solutions Chapter 1 3

Problem Solutions 1.1

(a) fcc: 8 corner atoms

$\times 1/8 = 1$ atom 6 face

atoms $\times 1/2 = 3$ atoms

Total of 4 atoms per

unit cell (b) bcc: 8

corner atoms $\times 1/8 = 1$

atom 1 enclosed atom

$= 1$ atom Total of 2

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