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Solution. For close packed AB type solid.  $r_+ / r_- = 0.414 - 0.7342$ .  $\therefore$  Minimum value of  $r_- = r_+ / 0.732 = 75 / 0.732 = 102.5$  pm. Maximum value  $r_- = r_+ / 0.414 = 75 / 0.414 = 181.2$

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pm. \_\_\_\_\_  
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What type of solid is it? Ans: It is a covalent or network solid. 1.8.  
Why are ionic solids conducting in the molten state and not in the solid-state? Ans: In the ionic solids, the electrical conductivity is due to the movement of the ions. Since the ionic mobility is negligible in the solid state, these are non-conducting in this state.

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The best advice I could give you would be to find a physicist specialized in solid-state physics and ask for the solutions to a few specific problems from the book. Cite 6th Dec, 2013

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Always use thermal grease between the heat sink and the solid-



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state device to ensure maximum heat transfer. Relay Current Problems. The overcurrent passing through a solid state relay must be kept below the maximum load current rating of the relay.

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