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undamentals of Materials Science and Engineering is an alternate version of my text, Materials Science and Engineering: An Introduction, Fifth Edition. The contents of both are the same, but the order of presentation differs and Fundamen-tals utilizes newer technologies to enhance teaching and learning.

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It would also prove useful in providing a science base for students studying materials engineering subjects.â€•- (Michael Davies, Materials World, October, 2011) â€œThe present book is a treatise on the basics of materials science, but at the same time it is intended for the beginners as well.

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17.24 This problemasks that we treat a porous material as a composite wherein one of the phases is a pore phase, and that we estimate upper and lower limits for the room-temperature thermal conductivity of a magnesiumoxide material having a 0.30 volume fraction of pores.

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### **Foundations of Materials Science and Engineering**

Materials science and technology is a multidisciplinary approach to science that involves designing, choosing, and using three major classes of materialsâ€”metals, ceramics, and polymers (plastics). Wood also could be used. Another class of materials used in MST is

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