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honeycombs and foams (which can now be made from polymers, metals, ceramics and composites) as well as natural materials, such as wood, cork and cancellous bone.

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concerned with the structure of cellular solids, with their properties, and with the way these properties are exploited in engineering design and in nature, The structure of honeycombs and foams is described in Chapter 2. Chapter 3 summarizes the properties of the solid materials from which they are made.

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such as wood, cork, and cancellous bone.

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Cellular Solids: Structure and Properties -  
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Generally speaking, cellular solids have relative densities which are less than about 0.3; most are much less — as low as 0.003.

At first sight one might suppose that the cell size, too, should be an important parameter, and sometimes it is; but (as later chapters

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show) most mechanical and thermal properties depend only weakly on cell size.

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Cellular solids include engineering honeycombs and foams (which can now be made from polymers, metals, ceramics, and composites) as well as natural materials, such as wood, cork, and cancellous...

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Lorna J...

The relationship between the structure and the properties of cellular solids made of natural materials and the properties of engineered materials including metals, ceramics and polymer has been summarized by Gibson and Ashby (1988). Porous materials can be categorized into closed

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The text summarises current understanding of the structure and mechanical behaviour of cellular materials, and the ways in which they can be exploited in engineering design.

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Cellular solids include engineering honeycombs and foams (which can now be made from polymers, metals, ceramics and composites) as well as natural materials, such as wood, cork and cancellous bone.

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Description of the book "Cellular Solids: Structure and Properties": In this new edition of their classic work on Cellular Solids, the authors have brought the book completely up to date, including new work on processing of metallic and ceramic foams and on the mechanical, electrical and acoustic properties of cellular solids.

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This course reviews the processing and



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structure of cellular materials as they are created from polymers, metals, ceramics, glasses, and composites, develops models for the mechanical behavior of cellular solids, and shows how the unique properties of honeycombs and foams are exploited in applications such as lightweight structural panels, energy absorption devices and

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be prepared to take one or both add-on modules to learn more about applications in medicine and to cellular materials in nature:

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Cellular Solids: Many materials have a cellular structure, with either a two-

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dimensional array of prismatic cells, as in a honeycomb, or a three-dimensional array of polyhedral cells, as in a foam. Engineering honeycombs and foams can now be made from nearly any material: polymers, metals, ceramics, glasses and composites, with pore sizes ranging from nanometers to millimeters.

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We utilize two different approaches, homogenization theory and discrete network analyses, to study the mechanical and transport properties of two-dimensional cellular solids (honeycombs) consisting of

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either hexagonal, triangular, square or  
Voronoi cells.

Effective mechanical and transport  
properties of cellular...

Cellular solids include engineering  
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