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Written with unusual clarity for an
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liquid foams in a highly readable style, limiting the slowing effect typical of other densely equation-ed texts. I am not an engineer so the plethora of written explanations accompanying the diagrams and equations helped tremendously.

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Cellular solids have physical, mechanical

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and thermal properties which are measured by the same methods as those used for Fully dense solids. Figure 1.3 shows the range of four of these properties: the density, the thermal conductivity, the Young's modulus, and the compressive strength.

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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. Cellular solids include engineering

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Atoms or molecules of the substance
present/unit cell = Z . Mass of unit cell =
(Number of atoms/molecules
present/unit cell x mass of one

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atom/molecule) = Density = Close
Packed Structures of Solids. In the
process of the formation of a crystal the
constituent particles are closely packed.

Chemistry: Solid State: Calculation of Density of Unit ...

Overview. Cellular solids include
engineering honeycombs and foams

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(which can now be made from polymers, metals, ceramics, and composites) as well as natural materials, such as wood, cork, and cancellous bone. This new edition of a classic work details current understanding of the structure and mechanical behavior of cellular materials, and the ways in which they can be exploited in engineering design.

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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

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Ashby (1988). Porous materials can be categorized into closed porous and open porous structures.

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15.2.4 Cellular structures Cellular
structures are omnipresent as a building
block in nature. Adapting their principles
into product design can optimize

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resulting properties, such as the weight-to-strength ratio, energy absorption, and heat transfer. In medical devices, cellular structures can be used to copy biomimetic features.

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