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Written with unusual clarity for an engineering course manual, "Cellular Solids" presents the properties of non-liquid foams in a highly readable style, limiting the slowing effect typical of other densely equation-ed texts. I am

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the book up to date, including new work on processing of metallic and ceramic foams and on the mechanical, electrical and acoustic properties of cellular solids. Data for commercially available foams are presented on material property charts.

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The Cellular Solids: Structures, Properties and Engineering Applications course provides a general understanding of cellular solids. Following this module, learners will 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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honeycombs and foams (which can now
be made from polymers, metals,

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ceramics, and composites) as well as natural materials, such as wood, cork, and cancellous bone.

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ceramics and composites) as well as natural materials, such as wood, cork and cancellous bone.

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Cellular solids have physical, mechanical and thermal properties which are measured by the same methods as those

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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

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

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and cancellous bone.

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Cellular Solids by Lorna J. Gibson

This course reviews the processing and 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

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Overview. 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. This new edition of a classic work details current understanding of the structure and mechanical behavior of cellular

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materials, and the ways in which they can be exploited in engineering design.

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15.2.4 Cellular structures Cellular

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

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categorized into closed porous and open porous structures.

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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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Cork, wood, sponge, and bone are all

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examples of cellular solids in nature. Engineered honeycombs and foams are now made from polymers, metals, ceramics, and glasses, and their structure gives them unique properties that can be exploited in a variety of applications.

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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. Note: Product cover images may vary from those shown

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