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## Cellular Design for Laser Freeform Fabrication

By Olaf Rehme

Cuvillier Verlag Mrz 2010, 2010. Taschenbuch. Condition: Neu. Neuware - Cellular materials are spread all across the world. They can be found in nature, e.g. in bone and wood, as well as in engineering applications such as honeycomb sheets and aluminum foams to name but a few. Cellular materials have some unique properties which allow new and innovative applications beyond the scope of solid engineering materials. Especially their low density and therefore their outstanding stiffness-to-weight-ratio is of greatest importance in most applications. Functions of cellular materials could be lightweight structures of high stiffness, damping and absorption of mechanical energy, vibration control, acoustic absorption, heat exchange, filtering and numerous other tasks. Generally, a combination of these tasks in one part exhibits an optimized and therefore innovative overall performance. One recent development in production technologies is the field of Laser Freeform Fabrication (LFF) processes where parts are manufactured by application of thin layers of powder or sometimes liquid material. A laser beam melts and solidifies the material along contour lines and hatch areas according to slices of a corresponding 3D-CAD model. Among these processes the Selective Laser Melting (SLM) technology was advanced based upon the work in this thesis to allow the..



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