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Integral Foam Molding Of Light

Integral Foam Moulding of Light Metals Carolin Koerner, Markus Hirschmann and Harald Wiehler Department of Materials Science, WTM, University Erlangen, 91058 Erlangen, Germany Integral foam moulding (IFM) is an economical way to produce castings with integrated cellular structure, i.e. a solid skin and a foamed

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Integral foam moulding (IFM) is an economical way to produce castings with integrated cellular structure, i.e. a solid skin and a foamed core.

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The development of cost-effective techniques to produce metal parts with integrated cellular structure is the newly developed process of integral foam molding. This book shows in three parts the technology, the fundamentals and the simulation models for the Integral Foam Molding of Light Metals

Integral Foam Molding of Light Metals - Technology, Foam ...

Integral foam moulding (IFM) is an economical way to produce castings with integrated cellular structure, i.e. a solid skin and a foamed core. IFM has been known for polymers for more than four decades and is well established in industrial production.

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This book shows in three parts the technology, the fundamentals and the simulation models for the Integral Foam Molding of Light Metals. Part I: "Technology" shows for the first time that foaming of metals is possible by applying molding techniques very similar to polymer integral foam molding.

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Polymer integral foam parts are accepted as a material system with own properties which simplifies designs, reduces production costs and weight, and increases stiffness and overall strength. On the

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other hand, integral foam moulding for metals is a new field of research.

Integral foam moulding of light metalsKörner C, Hirschmann ...

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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Integral foam moulding (IFM) is an economical way to produce castings with integrated cellular structure, i.e. a solid skin and a foamed core. IFM has been known for polymers for more than four decades and is well established in industrial production. Polymer integral foam parts are accepted as a material system with ...

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Polyurethane Foam Mouldings. Integral Skin or Self Skin.

The logical consequence of the requirement to develop cost-effective techniques to produce metal parts with integrated cellular structure is the newly developed process of integral foam molding. Integral foam consists of a solid skin and a cellular core.

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Integral foam molding represents an industrially highly important approach, developed to produce metal foam parts with a dense metal skin and gradual transition to a foamed core in one step. 50 The...

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The use of High pressure Integral Foam Molding (HP-IFM) process for the production of light metal, such as aluminum and magnesium, integral foam parts, is discussed. The HP-IFM allows the production of net-shaped aluminum integral foam parts that contain a locally foamed core.

High pressure integral foam moulding of aluminium ...

Integral foam molding (IFM) is an economical way to produce castings with integrated cellular structure, i.e. a solid skin and a foamed core. IFM is known for polymers since more than four decades and well established there in industrial production.

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