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Science and Engineering of Casting Solidification, Second ...

5.0 out of 5 stars Science and Engineering of Casting Solidification Reviewed in the United States on January 9, 2007 A classic text, essential to any engineer working with metal solidification.

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Casting is an engineering manufacturing process generally used for mass production in which materials in a molten state are poured into a mold where they solidify. In this process, complex parts can be manufactured economically and rapidly that otherwise would involve a lot of time if produced by other methods like shaping or cutting.

What is Casting? Sand Casting. Die Casting. Centrifugal ...

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Journal of Casting & Materials Engineering

Fig. 6.18 Normalized CR (N3h) and the evolution of the solid and primary austenite fractions (Alonso et al. 2012). With permission from the American Foundry Soc - "Science and Engineering of Casting Solidification"

Figure 6.18 from Science and Engineering of Casting ...

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Design of Gating System: The design of a gating system depends on both the metal and mould compositions. For example- an elaborate gating design is needed to avoid dross (e.g., oxides) in easily oxidized metals of low melting point such as aluminium.

Design of Gating System | Casting | Manufacturing Science

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The Science and Engineering of Cutting | ScienceDirect

Common casting materials are aluminum, bronze, and brass. For investment casting, the first step is to create an alginate or silicone rubber impression of the object, so multiple wax replicas can be created. These wax objects are attached to a "tree" of wax, creating a structure that can be encased in plaster to make the final metal mold.

Casting | Modern Blacksmithing and Physical Metallurgy ...

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