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â€œPrinciples of Solidificationâ€• offers comprehensive descriptions of liquid-to-solid transitions encountered in shaped casting, welding, and non-biological bulk crystal growth processes.

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The Importance of Solidification Casting forms the shape of a shaped component or a piece of material from liquid. Solidification controls the microstructure of the component or material formed during casting. This microstructure is called as-solidified microstructure.

Lecture 1: Introduction of Solidification and Casting

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Principles of Solidification - An Introduction to Modern

solidification morphology and solidification substructure respectively . Growth rate or solidification rate is the rate of advance of the solid/liquid interface into the liquid . The rate of movement of solidification front determines solute redistribution during solidification, scale of solidification substructure and the growth undercooling.

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