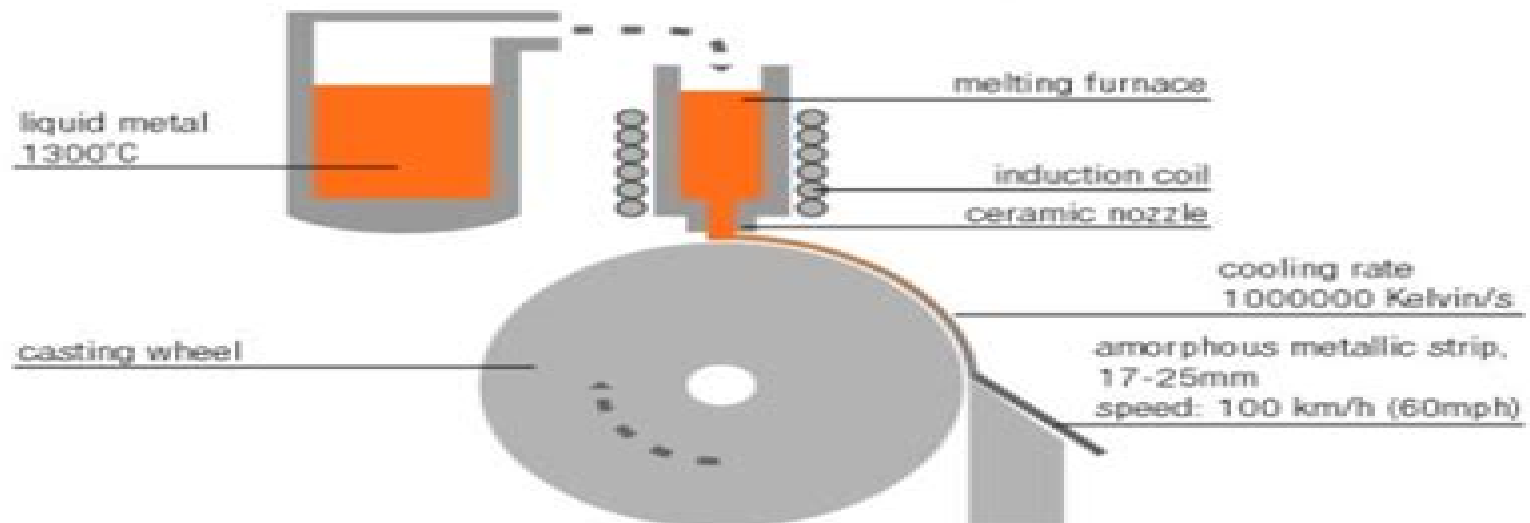


## RAPID SOLIDIFICATION TECHNOLOGY

VAC is one of the pioneers in Rapid Solidification Technology to cast thin metallic ribbons of thickness 15 -50  $\mu\text{m}$  in a single process step directly from the molten metal.

Special features of this process are:

- extremely high cooling rates of  $10^6$  K/s (i.e. from about 1400°C to less than 400 °C in one millisecond)
- high casting speeds of 100 km/h
- in-line winding of the thin ribbon
- automatic reel change during winding without process interruption



Rapid Solidification Technology allows the production of metallic ribbons in the amorphous (glassy) state. The lack of long range atomic order results in superior soft magnetic properties.

Via a special annealing treatment some amorphous compositions may be transformed into nanocrystalline materials

Amorphous and nanocrystalline soft magnetic alloys are the basis for many innovative applications as magnetic cores, inductive components or in labels for electronic article surveillance (EAS).

# Rapid Solidification Processing Principle

**N. R. Comins, J. B. Clark**



## **Rapid Solidification Processing Principl:**

**Rapid Solidification Processing** National Research Council (U.S.). National Materials Advisory Board. Commission on Engineering and Technical Systems,1982      Rapid Solidification Technology T.S. Sudarshan,T.S. Srivatsan,1993-12-20

Rapid solidification processing results in increased strength and fracture and fatigue resistance of alloys with concurrent improvements in mechanical physical and chemical properties This volume provides a systematic examination of this technology including metallurgical aspects processing methods alloy design and applications Each chapter was prepared by a specialist for this volume The text is well illustrated with more than 400 micrographs and schematics More than 75 tables provide important reference data      **The Role of Rapid Solidification Processing in the Fabrication of Fiber Reinforced Metal Matrix Composites** ,1989      *Elements of Rapid Solidification* Monde A. Otooni,2013-03-08

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Gessinger,2013-10-22 Powder Metallurgy of Superalloys details the advancement of powder metallurgy in the context of producing superalloys The book is comprised of nine chapters that cover the underlying principles of superalloys produced through powder metallurgy The text first covers concerns in pre alloyed dispersion free powders such as powder production and characterization powder consolidation methods and quality control and non destructive evaluation of P M superalloys The next chapter talks about oxide dispersion strengthened superalloys Next the book discusses joining techniques for P M superalloys and the practical applications of P M superalloys The title will be of great use to professionals in the materials manufacturing industry      **Aluminum Alloys--Contemporary Research and Applications** A. K. Vasudevan,Roger D. Doherty,2012-12-02 This book discusses the structure and properties of the current and potential aluminum alloys in terms of their structure and structural transformations by new processing methods and the relationship between structure and mechanical and other properties The alternative materials that challenge aluminum are considered as well since the challenge of new competitive materials is a strong influence on innovation The book bridges the gap between current scientific understanding and engineering practice It is an up to date reference that will be of use to researchers and advanced students in metallurgy and materials engineering      **Conservation and Substitution Technology for Critical Materials** ,1981      *Handbook of Composite Reinforcements* Stuart M. Lee,1996-12-17 Dieses umfassende einb ndige Handbuch behandelt alle Aspekte der Verst rkung von Werkstoffen angefangen von handfesten Themen wie dem manuellen Lay up Proze bis zu theoretischen Diskussionen ber Rheologie und Modellbildung Das Nachschlagewerk ist ein Auszug aus der sechsb ndigen International Encyclopedia of Composites und bietet das theoretische und praktische Wissen von renommierten Experten aus Industrie Forschung und staatlichen Instituten in einem handlichen und informativen Handbuch Fasern Herstellungsverfahren und Typen der Werkstoffverst rkung werden detailliert behandelt aber auch Themenbereiche wie z B die Beziehungen der Eigenschaften Fertigung hybride Verst rkungen und Modellbildung Ingenieure Materialwissenschaftler und Technologen werden das Composite Reinforcement Handbook als wichtiges Werkzeug sch tzen lernen      *Rapid Solidification Technology* R. L. Ashbrook,1983      **Rapid Solidification Processing: Principles and Technologies II.** R. (ed.) Mehrabian,2013      **Rapidly Solidified Alloys** Liebermann,1993-05-20 This volume details the principles underlying rapid solidification processing material structure and properties and their applications This practical resource presents a manifold approach to both amorphous and crystalline rapidly solidified metallic alloys Written by over 30 internationally acclaimed specialists in their respective fields Rapidly Solidified Alloys surveys nucleation and growth studies in undercooled melts examines various processes for the production of rapidly solidified alloys discusses the compaction of amorphous alloys describes surface remelting treatments for the rapid solidification of surface layers and the resultant improved workpiece properties covers the closely related topics of structural relaxation atomic transport and other thermally induced processes demonstrates microstructure property relationships in rapidly quenched crystalline alloy systems and

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*Metallic Powders for Additive Manufacturing* Enrique J. Lavernia, Kaka Ma, Julie M. Schoenung, James F. Shackelford, Baolong Zheng, 2024-02-02 Metallic Powders for Additive Manufacturing Overview of successful pathways for producing metal powders for additive manufacturing of high performance metallic parts and components with tailored properties Metallic Powders for Additive Manufacturing introduces the readers to the science and technology of atomized metal powders beyond empirical knowledge and the fundamental relationships among the chemistry microstructure and morphology of atomized metallic powders and their behavior during additive manufacturing The text sets a foundation of the underlying science that controls the formation and microstructure of atomized metallic droplets including the relations among the properties of metallic powders their performance during the manufacturing processes and the resulting products Other topics covered include the influence of powder on defect formation residual stress mechanical behavior and physical properties The concluding two chapters encompass considerations of broader societal implications and overarching themes including the exploration of alternative feedstock materials economic analysis and sustainability assessment These chapters offer valuable perspectives on the prospective trajectory of the field Written by a team of experienced and highly qualified professors and academics Metallic Powders for Additive Manufacturing includes information on Atomization techniques such as Vacuum Induction Gas Atomization VIGA Electrode Induction Melting Gas Atomization EIMGA and Plasma Rotating Electrode Process PREP Atomization science and technology covering control of atomization parameters powder size distribution effect of processing variables and theoretical models of atomization Heat transfer and solidification of droplets covering nucleation microstructure development and important thermal and solidification conditions during atomization Atomization of Al Fe Ni Co Ti and high entropy alloys as well as composite powders for additive manufacturing and

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*Rapid Solidification Processing* Bernard H. Kear, Morris Cohen, Robert Mehrabian, 1978

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