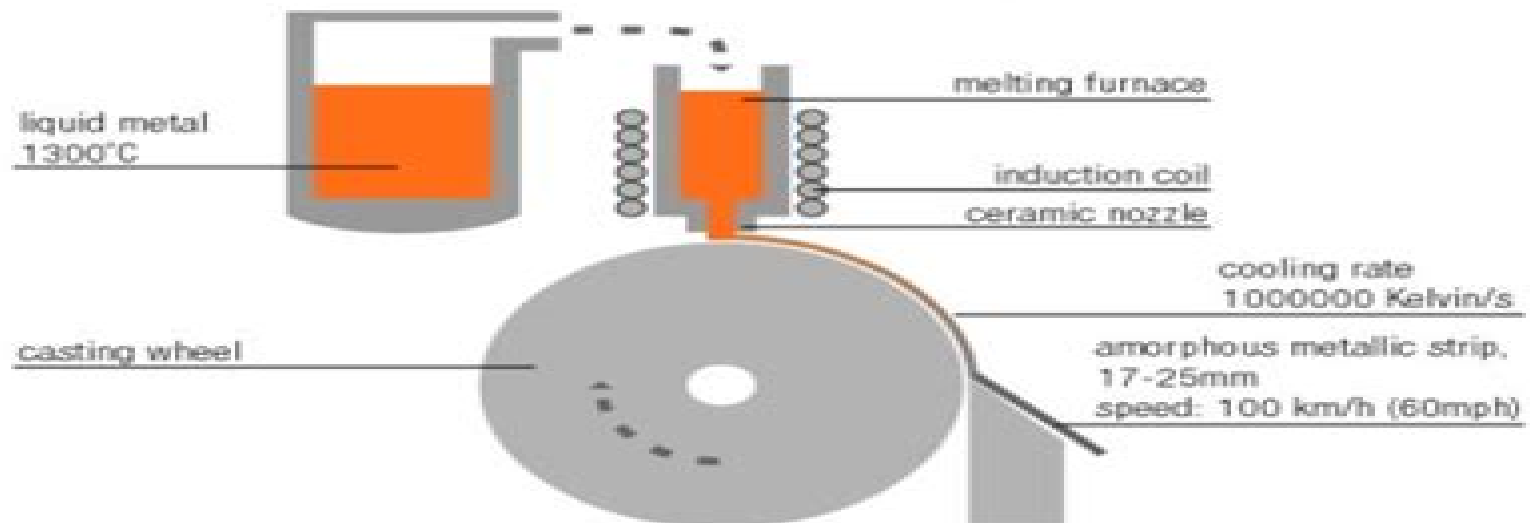


RAPID SOLIDIFICATION TECHNOLOGY

VAC is one of the pioneers in Rapid Solidification Technology to cast thin metallic ribbons of thickness 15 -50 μm 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

Monde A. Otooni



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 Elements of Rapid Solidification Fundamentals and Applications is the product of many years of concentrated work in the field of rapid solidification and processing This quasi monograph is unique in two ways It brings together the talent of many international scientists in an effort to focus attention on all aspects of a new scientific field and it concentrates on fundamentals and practical applications Simply stated this book has been written by the senior students in the field of rapid solidification technology for the new generation of solid state physicists materials scientists materials engineers metallurgists and ceramicists Rapid Solidification Processing Principles and Technologies, III ,1982 *Eutectic Solidification Processing* Roy Elliott,2013-10-22 Eutectic Solidification Processing Crystalline and Glassy Alloys deals with solidification theory and its application to eutectic processing of crystalline and glassy alloys The underlying theme is an analysis of the different paths taken by the liquid solid transformation as the cooling rate increases and a description of the structure and properties of the solid formed ranging from equilibrium to metastable phase formation in castings to metallic glass formation in splat quenched ribbons This text has seven chapters the first of which describes the main characteristics of the liquid solid transformation The chapters that follow show how control over composition trace impurities heat flow and cooling rate and nucleation and growth gives rise to a wide range of solidification structures Models of the nucleation and growth of eutectic and primary phases are analyzed and used to explain how cast microstructures are formed Aluminum casting alloys and all types of cast iron are discussed along with primary phase formation the dependence of the extent of segregation on solidification conditions and the practice of segregation prevention during solidification This book also describes the importance of fluid flow in producing macroscopic segregation in large ingots and considers ways of minimizing this defect Finally this book gives a brief account of the various types of metallic glasses their fabrication important properties and potential applications This book will be of interest to materials scientists and industrial materials engineers **Rapid Solidification Processing** Robert Mehrabian,Phillip A. Parrish,1988 **Transport Phenomena in Food Processing, First International Conference Proceedings** Selcuk Guceri,1992-11-30 *Powder Metallurgy of Superalloys* G. H. 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 their beneficial effects in applications

and elucidates the basic engineering and applications oriented magnetic properties of amorphous alloys Furnishing more than 2300 literature citations for further study of specific subjects Rapidly Solidified Alloys is intended for materials mechanical product and civil engineers metallurgists magneticians physicists physical chemists and graduate students in these disciplines *Specialty Steels and Hard Materials* N. R. Comins, J. B. Clark, 2013-09-24 Specialty Steels and Hard Materials covers the proceedings of the International Conference on Recent Developments in Specialty Steels and Hard Materials Materials Development 82 The main focus of the materials in the selection is on the microstructural detail alloy design processing technology applications and economic viability The first part of the title presents the invited papers in the conference this part includes topics such as toughness in high speed steels and hard metals the use of vanadium in low alloy structural steels and design of strong ductile duplex low alloy steels The second part of the text covers topics about high strength low alloy steels stainless steels and rapid solidification processing The last part of selection deals with tungsten carbide cobalt hard metals non oxide ceramics and sintered polycrystalline ultra hard materials The book will be of great interest to students researchers and practitioners of materials engineering and metallurgy *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 guidelines for atomization

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