

POTENTIAL APPLICATIONS OF METALLIC GLASSES

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Abstract: Metallic Glasses are considered to be the materials of the future. These new materials are said to be stronger and much springier than the best industrial steel. This article presents a short review of metallic glasses: the general knowledge, the history and methods of preparation of metallic glasses, the remarkable properties along with potential applications and problems exist in studying of these new materials.

Keywords: Glasses, metallic, non-crystalline solid, elastic, strength.

1. INTRODUCTION

Mention "glass", and a window pane comes to mind. To scientists, a glass is any material that can be cooled from a liquid to a solid without crystallizing. Most metals crystallize as they cool, arranging their atoms into a highly regular spatial pattern called a lattice. But if crystallization does not occur, and the atoms settle into a nearly random arrangement, the final form is a metallic glass. Unlike common glasses, such as window glass, which are typically electrical insulators, metallic glasses have good electrical conductivity. With no crystal defects, metallic glasses have a lot of remarkable properties, which promise a lot of applications in engineering. However, study of the structure and study how to create a metallic glass with a large size is a challenge for scientists. Thus, although the first successful fabrication of metallic glasses was done more than 50 years ago, these materials still have a very large attractiveness in science and engineering. The objective of this article is to introduce the general knowledge, the problems have not been resolved and the potential applications of these new materials.

2. HISTORY OF METALLIC GLASSES

How to create a metallic glass? The answer is to give the metal atoms not the slightest chance to form a crystal. This means to cool the material superfast. The formation of the first metallic glass of $\text{Au}_{80}\text{Si}_{20}$ was reported by Duwez and co-workers at the California Institute of Technology in 1960 [1]. Rapidly quenching a $\text{Au}_{80}\text{Si}_{20}$ alloy, using "splat-cooling" to

*Received July 2, 2016 * Published Aug 2, 2016 * www.ijset.net*

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Rapidly Quenched Metals 6: Volume 3 R.W. Cochrane, 1988-01-01 Rapidly Quenched Metals 6 Volume 3 **Rapidly Quenched Metals 6** R.W. Cochrane, 1988-01-01 Rapidly Quenched Metals 6 Volume 1 covers the proceedings of the Sixth International Conference on Rapidly Quenched Metals held at Le Centre Sheraton Montreal Canada from August 3 to 7 1987 The said conference discusses a wide variety of topics in the field of rapidly solidified metals The book is divided into two parts Part 1 covers topics that involve the formation and transformation in metallic materials amorphous metals the applications of mechanical alloying and rapid melting and quenching Part 2 discusses the formation and structure of amorphous alloys which includes topics such as the metastability of amorphous phases amorphous alloy powders and studies about the properties of different amorphous alloys The text is recommended for those involved in materials science and metallurgy especially those studying rapidly solidified metals and amorphous alloys Supercooled Liquids, Glass Transition and Bulk Metallic Glasses: Volume 754 Takeshi Egami, 2003-07-16 There has been a renaissance in glass science brought about by the development of concepts such as fragility index and the energy landscape with megabasins Research on bulk metallic glasses has been explosive since their advent when MRS offered its first book on the topic In 2000 a second book broadened the scope to include supercooled liquid bulk glassy and nanocrystalline states This book enhances the scope to include glass transition in diverse materials such as water silicate and polymeric melts Bringing these threads together in an interdisciplinary manner was fruitful and offers proof that while there is much common ground gaps between various approaches to the glassy state remain to be bridged Subjects include the supercooled liquid glass formability structural relaxation and dynamics structure determination and modeling processing and applications of bulk metallic glasses mechanical properties mechanical properties composites crystallization electronic and magnetic structure and properties and nanoparticles and nonmetallic glasses *Progress in Advanced Structural and Functional Materials Design* Tomoyuki Kakeshita, 2012-11-29 This book describes clearly various research topics investigated for these 10 years in the Research Center of Advanced Structural and Functional Materials Design in Osaka University Japan Every chapter is aimed at understanding most advanced researches in materials science by describing its fundamentals and details as much as possible Since both general explanations and cutting edge commentaries are given for each topic in this book it provides a lot of useful information for ordinary readers as well as materials scientists engineers who wish to understand the future development in materials science fields of metals alloys ceramics semiconductors etc In particular this book deals with special fusion area of structural and functional materials such as medical bone materials of which contents are very unique features as materials science textbook *NASA Technical Paper*, 1983 **Trends In Non-crystalline Solids - Proceedings Of The Third International Workshop On Non-crystalline Solids** A Conde, C F Conde, 1992-09-22 The automatic generation of parallel code from high level sequential description is of key importance to the wide spread use of

high performance machine architectures This text considers in detail the theory and practical realization of automatic mapping of algorithms generated from systems of uniform recurrence equations do lccps onto fixed size architectures with defined communication primitives Experimental results of the mapping scheme and its implementation are given *Energy Research Abstracts*, 1990 **April 16** Görlich, 2022-01-19 No detailed description available for April 16 **Futuristic Materials**, **Nano and Microstructural Design of Advanced Materials** M. A. Meyers, M. Sarikaya, R. O. Ritchie, 2003-12-05 The importance of the nanoscale effects has been recognized in materials research for over fifty years but it is only recently that advanced characterization and fabrication methods are enabling scientists to build structures atom by atom or molecule by molecule The understanding and control of the nanostructure has been to a large extent made possible by new atomistic analysis and characterization methods pioneered by transmission electron microscopy Nano and Microstructural Design of Advanced Materials focuses on the effective use of such advanced analysis and characterization techniques in the design of materials Teaches effective use of advanced analysis and characterization methods at an atomistic level Contains many supporting examples of materials in which such design concepts have been successfully applied **Rapidly Quenched Metals 6: Volume 2** R.W. Cochrane, 1988-01-01 Rapidly Quenched Metals 6 Volume 2 **Metastable Alloys: Preparation and Properties** K.W. Samwer, M. von Allmen, J. Böttiger, B. Stritzker, 2014-01-13 This volume contains most of the papers presented at symposium D one of the four symposia that formed the 1988 Strasbourg Spring Conference The three day programme consisted of nine oral sessions a poster session and a plenary talk giving an overview of current topics in hard magnetic materials Scientists involved in basic as well as applied research concentrated their discussions on the fundamental processes relevant for the formation of metastable alloys such as amorphous alloys metallic glasses microcrystalline quasicrystalline and nanocrystalline alloys and their applications These materials are proving to be of considerable interest to research workers because of their possible application in the electronics industry e g as diffusion barriers in devices or as data storage media Proceedings of the Indian Science Congress Indian Science Congress Association, 1982 *Scientific and Technical Aerospace Reports*, 1993 **Internal Friction in Metallic Materials** Mikhail S. Blanter, Igor S. Golovin, Hartmut Neuhäuser, Hans-Rainer Sinnig, 2007-05-17 This book is a unique collection of experimental data in the field of internal friction anelastic relaxation and damping properties of metallic materials It reviews virtually all anelastic relaxation phenomena ever published The reader is also supplied with explanations of the basic physical mechanisms of internal friction a summary of typical effects for different groups of metals and more than 2000 references to original papers *Oxide Dispersion Strengthened Refractory Alloys* Anshuman Patra, 2022-05-12 Refractory metals such as W Mo Ta Nb and Re have immense potential for application in plasma facing materials in nuclear reactors defense materials aviation counterweights heating elements in furnaces and so forth This book presents a wide perspective of oxide dispersion strengthened refractory alloys fabrication and critical properties It provides a comprehensive

road map for an appropriate basis for alloy design process parameter selection fabrication route and deformation behavior for oxide dispersion strengthened refractory alloys It further covers achievement of application oriented properties and critical process regulating parameters for development of sustainable materials Features Covers development of oxide dispersion strengthened sustainable material to withstand high temperature environments Describes stimulating application oriented final mechanical properties Illustrates fabrication of alloys through effective route to achieve desired properties Presents in depth explanation of deformation behavior at ambient and high temperatures Explores critical applications of the alloys in nuclear reactors defense and aviation sectors Oxide Dispersion Strengthened Refractory Alloys will be of interest to graduate students and researchers in high temperature materials mechanics metallurgy powder metallurgy and physical metallurgy

Amorphous Metals and Semiconductors P. Haasen, R. I. Jaffee, 2013-10-22 Amorphous Metals and Semiconductors contains the proceedings of an international workshop held at Coronado California USA on May 12 18 1985 Organized into five parts this book first looks into the historical perspective on semiconductors and metals This book then explains the glass formation magnetic glasses and amorphous semiconductors The mechanical and chemical properties of these materials are also given

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