

Superplasticity in metals and ceramics

T.G. Nieh, J. Wadsworth and O.D. Sherby

Cambridge Solid State Science Series



Superplasticity In Metals Ceramics Int

Ashutosh Tiwari, Anis N. Nordin



Superplasticity In Metals Ceramics Int:

Superplasticity of Alloys, Intermetallics and Ceramics Oscar A. Kaibyshev, 2012-12-06 Superplasticity is shown to be a universal phenomenon in materials ranging from metals and intermetallics to ceramics Superplastic deformation facilitates the production of materials with specifically chosen properties This is illustrated using the examples of Mg Al and Ti based commercial alloys steels and superalloys Some of the strengths of this book are the broad range of materials studied the reduction of scientific results to a form suitable for the practitioner a profound physical analysis of the phenomenon a new approach to superplastic treatment as a kind of strain heat treatment the presentation of new data on superplastic flow and on production techniques of micro and submicrocrystalline structures Superplasticity in Metals, Ceramics, and Intermetallics: Volume 196 M. J. Mayo, M. Kobayashi, J. Wadsworth, 1990 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *13th International Conference on Aluminum Alloys (ICAA 13)* Hasso Weiland, Anthony Rollett, William Cassada, 2017-02-28 This is a collection of papers presented at the 13th International Conference on Aluminum Alloys ICAA 13 the premier global conference for exchanging emerging knowledge on the structure and properties of aluminum materials The papers are organized around the topics of the science of aluminum alloy design for a range of market applications the accurate prediction of material properties novel aluminum products and processes and emerging developments in recycling and applications using both monolithic and multi material solutions **Superplastic Flow** K.A. Padmanabhan, R.A. Vasin, F.U. Enikeev, 2012-12-06 Superplasticity is the ability of polycrystalline materials under certain conditions to exhibit extreme tensile elongation in a nearly homogeneous isotropic manner Historically this phenomenon was discovered and systematically studied by metallurgists and physicists They along with practising engineers used materials in the superplastic state for materials forming applications Metallurgists concluded that they had the necessary information on superplasticity and so theoretical studies focussed mostly on understanding the physical and metallurgical properties of superplastic materials Practical applications in contrast were led by empirical approaches rules of thumb and creative design It has become clear that mathematical models of superplastic deformation as well as analyses for metal working processes that exploit the superplastic state are not adequate A systematic approach based on the methods of mechanics of solids is likely to prove useful in improving the situation The present book aims at the following 1 Outline briefly the techniques of mechanics of solids particularly as it applies to strain rate sensitive materials 2 Assess the present level of investigations on the mechanical behaviour of superplastics 3 Formulate the main issues and challenges in mechanics of superplasticity 4 Analyse the mathematical models constitutive equations for superplastic flow from the viewpoint of mechanics 5 Review the models of superplastic metal working processes 6 Indicate with examples new results that may be obtained using the methods of mechanics of solids *Grain Boundary Controlled Properties of Fine Ceramics* Kozo Ishizaki, K. Niihara, M. Isotani, R.G. Ford, 2012-12-06 Selected papers presented at the

International Workshop on Fine Ceramics 92 Materials Processing and Design through Better Control of Grain Boundaries Emphasizing Fine Ceramics held in Nagoya Japan 12 13 March 1992 **Mechanical Properties and Deformation**

Behavior of Materials Having Ultra-Fine Microstructures M. Nastasi, Don M. Parkin, Herbert Gleiter, 2012-12-06 In an attempt to meet the demand for new ultra high strength materials the processing of novel material configurations with unique microstructure is being explored in systems which are further and further from equilibrium One such class of emerging materials is the so called nanophased or nanostructured materials This class of materials includes metals and alloys ceramics and polymers characterized by controlled ultra fine microstructural features in the form of layered fibrous or phase and grain distribution While it is clear that these materials are in an early stage of development there is now a sufficient body of literature to fuel discussion of how the mechanical properties and deformation behavior can be controlled through control of the microstructure This NATO Advanced Study Institute was convened in order to assess our current state of knowledge in the field of mechanical properties and deformation behavior in materials with ultra fine microstructure to identify opportunities and needs for further research and to identify the potential for technological applications The Institute was the first international scientific meeting devoted to a discussion on the mechanical properties and deformation behavior of materials having grain sizes down to a few nanometers Included in these discussions were the topics of superplasticity tribology and the supermodulus effect Lectures were also presented which covered a variety of other themes including synthesis characterization thermodynamic stability and general physical properties Plastic Deformation of Ceramics R.C. Bradt, C.A. Brookes, J.L. Routbort, 2013-11-11 This proceedings volume Plastic Deformation of Ceramics constitutes the papers of an international symposium held at Snowbird Utah from August 7 12 1994 It was attended by nearly 100 scientists and engineers from more than a dozen countries representing academia national laboratories and industry Two previous conferences on this topic were held at The Pennsylvania State University in 1974 and 1983 Therefore the last major international conference focusing on the deformation of ceramic materials was held more than a decade ago Since the early 1980s ceramic materials have progressed through an evolutionary period of development and advancement They are now under consideration for applications in engineering structures The contents of the previous conferences indicate that considerable effort was directed towards a basic understanding of deformation processes in covalently bonded or simple oxide ceramics However now more than a decade later the focus has completely shifted In particular the drive for more efficient heat engines has resulted in the development of silicon based ceramics and composite ceramics The discovery of high temperature cupric oxide based superconductors has created a plethora of interesting perovskite like structured ceramics Additionally nanophase ceramics ceramic thin films and various forms of toughened ceramics have potential applications and hence their deformation has been investigated Finally new and exciting areas of research have attracted interest since 1983 including fatigue nanoindentation techniques and superplasticity Transport Phenomena in Food

Processing, First International Conference Proceedings Selcuk Guceri, 1992-11-30 **5th International Symposium on Ceramic Materials and Components for Engines, Shanghai, China, 29 May-1 June 1994** International Symposium on Ceramic Materials and Components for Engines 1994, Shanghai, China, 1995 The 5th of a prestigious series of conferences these proceedings are devoted to the latest achievements in ceramic materials and components for engines Their purpose is to advance structural ceramics and ceramic engine technology on a worldwide scale and provide a state of the art survey of this increasingly important field The papers presented cover many aspects from basic research and development to production properties and applications These proceedings will be of interest to ceramists and mechanical engineers concerned with the potential use of ceramic components in engines **Advanced Biomaterials and Biodevices** Ashutosh Tiwari, Anis N. Nordin, 2014-06-30 This cutting edge book focuses on the emerging area of biomaterials and biodevices that incorporate therapeutic agents molecular targeting and diagnostic imaging capabilities The design and development of biomaterials play a significant role in the diagnosis treatment and prevention of diseases When used with highly selective and sensitive biomaterials cutting edge biodevices can allow the rapid and accurate diagnosis of disease creating a platform for research and development especially in the field of treatment for prognosis and detection of diseases in the early stage This book emphasizes the emerging area of biomaterials and biodevices that incorporate therapeutic agents molecular targeting and diagnostic imaging capabilities The 15 comprehensive chapters written by leading experts cover such topics as The use of severe plastic deformation technique to enhance the properties of nanostructured metals Descriptions of the different polymers for use in controlled drug release Chitin and chitosan as renewable healthcare biopolymers for biomedical applications Innovated devices such as label free biochips and polymer MEMS Molecular imprinting and nanotechnology Prussian Blue biosensing applications The evaluation of different types of biosensors in terms of their cost effectiveness selectivity and sensitivity Stimuli responsive polypeptide nanocarriers for malignancy therapeutics

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