

O. A. Kaibyshev

Superplasticity of Alloys, Intermetallides, and Ceramics



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Superplasticity Of Alloys Intermetallides And Ceramics

**Peter M. Burgess, Anatoly I.
Pshenichnyuk**

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Superplasticity of Alloys, Intermetallides 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 of Alloys, Intermetallides, and Ceramics Oskar Akramovich Kaibyshev, 1992

Superplasticity and Grain Boundaries in Ultrafine-Grained Materials Peter M. Burgess, Anatoly I. Pshenichnyuk, 2011-05-31 Superplasticity is a state in which solid crystalline materials such as some fine grained metals are deformed well beyond their usual breaking point The phenomenon is of importance in processes such as superplastic forming which allows the manufacture of complex high quality components in such areas as aerospace and biomedical engineering Superplasticity and grain boundaries in ultrafine grained materials discusses a number of problems associated with grain boundaries in metallic polycrystalline materials The role of grain boundaries in processes such as grain boundary diffusion relaxation and grain growth is investigated The authors explore the formation and evolution of the microstructure texture and ensembles of grain boundaries in materials produced by severe plastic deformation Written by two leading experts in the field Superplasticity and grain boundaries in ultrafine grained materials significantly advances our understanding of this important phenomenon and will be an important reference work for metallurgists and those involved in superplastic forming processes Discusses significant problems associated with grain boundaries in polycrystals incorporating structural superplasticity and grain boundary sliding Assesses the role of grain boundaries in processes such as grain boundary diffusion relaxation and grain growth Explores the formation and evolution of the microstructure texture and ensembles of grain boundaries in materials produced by severe plastic deformation

Aerospace Materials and Material Technologies N. Eswara Prasad, R.J.H. Wanhill, 2016-11-07 This book serves as a comprehensive resource on various

traditional advanced and futuristic material technologies for aerospace applications encompassing nearly 20 major areas

Each of the chapters addresses scientific principles behind processing and production production details equipment and

facilities for industrial production and finally aerospace application areas of these material technologies The chapters are

authored by pioneers of industrial aerospace material technologies This book has a well planned layout in 4 parts The first

part deals with primary metal and material processing including nano manufacturing The second part deals with materials

characterization and testing methodologies and technologies The third part addresses structural design Finally several

advanced material technologies are covered in the fourth part Some key advanced topics such as Structural Design by ASIP

Damage Mechanics Based Life Prediction and Extension and Principles of Structural Health Monitoring are dealt with at equal length as the traditional aerospace materials technology topics This book will be useful to students researchers and professionals working in the domain of aerospace materials 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 Forming of Advanced Metallic Materials G Giuliano,2011-06-27 Ultra fine grained metals can show exceptional ductility known as superplasticity during sheet forming The higher ductility of superplastic metals makes it possible to form large and complex components in a single operation without joints or rivets The result is less waste lower weight and manufacturing costs high precision and lack of residual stress associated with welding which makes components ideal for aerospace automotive and other applications Superplastic forming of advanced metallic materials summarises key recent research on this important process Part one reviews types of superplastic metals standards for superplastic forming processes and equipment Part two discusses ways of modelling superplastic forming processes whilst the final part of the book considers applications including superplastic forming of titanium aluminium and magnesium alloys With its distinguished editor and international team of contributors Superplastic forming of advanced metallic materials is a valuable reference for metallurgists and engineers in such sectors as aerospace and automotive engineering Note The Publishers wish to point out an error in the authorship of Chapter 3 which was originally listed as G Bernhart Cl ment Ader Institute France The correct authorship is G Bernhart P Lours T Cutard V Velay Ecole des Mines Albi France and F Nazaret Aurock France The Publishers apologise to the authors for this error Reviews types of superplastic metals and standards for superplastic forming Discusses the modelling of superplastic forming including mathematical and finite element modelling Examines various applications including superplastic forming of titanium aluminium and magnesium alloys **Materials Processing Handbook** Joanna R. Groza,James F. Shackelford,2007-03-28 The field of materials science and engineering is rapidly evolving into a science of its own While traditional literature in this area often concentrates primarily on property and structure the Materials Processing Handbook provides a much needed examination from the materials processing perspective This unique focus reflects the changing complex 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 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 Superplasticity in Advanced Materials, ICSAM-94 Terence G. Langdon, 1994 While the superplastic phenomenon was first demonstrated in scientific experiments conducted in the United Kingdom much of the early systematic work in this area was performed in Russia This volume covers the recent developments concerning superplasticity phenomena in many materials classes of current interest Superplasticity in Advanced Materials, ICSAM-97 Atul H. Chokshi, 1997 Interest in the phenomenon of superplasticity has been increasing steadily over the past two decades both with regard to promoting fundamental scientific understanding as well as commercial application Most of the early studies on superplasticity dealt with microduplex metallic alloys The unabated interest in and scientific research on superplasticity has now broadened the scope of the topic to include intermetallic compounds ceramics composites and nanocrystalline materials Superplasticity in Advanced Materials Richard I. Todd, 2004 Superplastic forming SPF has come a long way from its relatively recent history of being of interest only to the aerospace and aeronautical industries and has made rapid inroads into applications in the automotive rail architectural sports dental and entertainment sectors This book comprises 82 papers which describe in detail the latest developments in the field All aspects of the subject are covered ranging from the atomistic simulation of grain boundary sliding to the industrial scale application of superplasticity and of diffusion bonding This volume therefore represents an invaluable guide to the state of the art in this field **THERMEC'2003** T. Candra, Jose Maria Torralba, Tetsuo Sakai, 2003-08-15 Proceedings of the International Conference on Processing Manufacturing of Advanced Materials **Superplasticity -Current Status and Future Potential: Volume 601** Patrick B. Berbon, 2000 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners The book first published in 2000 includes topics on superplasticity in metals and intermetallics superplasticity in ceramics fundamental aspects of superplasticity superplasticity

in industry high strain rate superplasticity and developments using severe plastic deformation **Materials and Technologies for Sustainability** Alokesh Pramanik,Sayed Shebl,Hamada Shoukry,2022-05-30 Special topic volume with invited peer reviewed papers only **Superplasticity** Oskar Akramovich Kaibyshev,Farid Z. Utyashev,2005 The remarkable technology of superplastic forming was developed and perfected in the former Soviet Union This volume written by two Russian scientists at the Institute for Metals Superplasticity Problems in Ufa Bashkortostan Russia of which Kaibyshev was the former director presents a detailed and up to date treatment of the technology with particular attention to the production of ultrafine grain materials their use in superplastic shaping and forming practical aspects of the process and new developments in submicrocrystalline and nanocrystalline materials production The comprehensive bibliography of the largely Russian literature will be a valuable resource for the serious scientist Specialists in machine building and metallurgy as well as graduate students and researchers will be the book's audience Annotation 2004 Book News Inc Portland OR booknews.com **Metals Abstracts** ,1996 *Towards Innovation in Superplasticity II* T. Sakuma,T. Aizawa,K. Higashi,1999 The papers of this second conference summarize the progress made in three major target areas 1 to identify new phenomena in superplasticity 2 to extend superplasticity research into the atomistic level of grain boundary analysis and 3 to find ways of enhancing collaboration between scientists and industrial engineers *International Journal of Materials & Product Technology* ,2004 Superalloys 718, 625, 706 and Various Derivatives E. A. Loria,2001 This text comprises a collection of papers from the Fifth International Symposium on Superalloys 718 625 706 and Derivatives held in June 2001 in Pittsburgh This volume includes discussion on melting solidification casting forming technology thermal processing and physical metallurgy

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