

**K. A. Padmanabhan**  
**R. A. Vasin · F. U. Enikeev**

# Superplastic Flow: Phenomenology and Mechanics



Springer

# Superplastic Flow Phenomenology And Mechanics

**Wu Fan**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

## **Superplastic Flow Phenomenology And Mechanics:**

**Superplastic Flow** K.A. Padmanabhan,R.A. Vasin,F.U. Enikeev,2001-02-26 The present book aims at the following To outline briefly the techniques of mechanics of solids particularly as it applies to strain rate sensitive materials to assess the present level of investigations on the mechanical behaviour of superplastics to formulate the main issues and challenges in mechanics of superplasticity to analyse the mathematical models constitutive equations for superplastic flow from the viewpoint of mechanics to review the models of superplastic metal working processes to indicate with examples possible new results that can be obtained using the methods of mechanics of solids It is intended for a variety of readers who may be interested in the phenomenon of superplasticity for different reasons materials scientists and physicists working in educational institutions and R D units those who wish to work on the applications of superplasticity engineers in industry students at senior undergraduate and postgraduate levels and those who wish to understand the phenomenology and mechanics of superplasticity without involvement in actual research A reader who has exposure to standard differential and integral calculus and elementary tensor calculus at a level taught to senior undergraduate students at a technical university should have no difficulty in following the treatments The analytical procedures are explained in an Appendix with simple examples

**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

**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**

**Superplasticity** K. A. Padmanabhan, S. Balasivanandha Prabu, R. R. Mulyukov, Ayrat Nazarov, R. M. Imayev, S. Ghosh Chowdhury, 2018-12-08 This book combines the perspectives of materials science of Superplasticity on the one hand and those of design and mechanics on the other in order to provide a holistic view of materials design mechanics and performance which will lead to useful solutions of societal benefits in addition to providing great intellectual challenges After considering the experimental evidence for superplasticity in different classes of materials the book discusses the physics based models along with their advantages and limitations Then the analyses for superplastic forming available in the framework of continuum mechanics finite element analysis and numerical simulations are presented Finally the authors highlight some successful industrial applications This book is recommended as a text book for courses on Superplasticity and as supplementary use for courses on Materials Processing Manufacturing High Temperature Deformation Nanotechnology and Mechanical Behavior of Materials Persons working in Department of Materials Science and Engineering Physics Mechanics Mechanical Engineering Aerospace Engineering Metallurgy Ceramics and Geo sciences are likely to find the book to be useful It is also recommended as a reference source for practicing engineers involved in the design processing and manufacture of industrial components which exploit the unique properties associated with superplastic materials

**Frontiers in Materials Science** B. Raj, 2005 This volume presents contributions by a galaxy of eminent scientists and technologists from the world over in broad spectrum of areas in materials science providing a global perspective on complex issues of current concern and the direction of research in these areas

**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

**Aluminum-Lithium Alloys** S. Balasivanandha Prabu,K.A.

Padmanabhan,2013-09-20 Since the late 1950s lithium is being used as an alloying element in aluminum Their excellent ductility which allows superplastic forming along with their ability to decrease the density makes aluminum lithium alloys a primary choice for many structural applications in aerospace industry This chapter initially discusses the processes and mechanisms that give rise to significant plasticity Superplasticity in these alloy systems The superplastic behavior of Al Li alloys and their applications in forming are then discussed The thickness variation during superplastic forming strongly depends on the peak strain rate sensitivity index  $m$  of the material and an increase in the  $m$  value reduces the thickness variation in the formed component The factors that help increase the value of  $m$  are enumerated Superplastic forming is carried out at temperatures  $0.5 T_m$   $T_m$  is the absolute melting temperature often closer to  $0.7-0.8 T_m$  Significant cavitation and grain growth are present at such high temperatures This has ushered in low temperature superplastic forming by the production of ultra fine grain sizes via dispersion strengthening and severe plastic deformation SPD The promise of superplastic forming of Al Li alloys for the future and the factors including cost that limit the use of Al Li alloys are also discussed

**Aluminum-Lithium Alloys** N Eswara Prasad,Amol Gokhale,R.J.H Wanhill,2013-09-20 Because lithium is the least dense elemental metal materials scientists and engineers have been working for decades to develop a commercially viable aluminum lithium Al Li alloy that would be even lighter and stiffer than other aluminum alloys The first two generations of Al Li alloys tended to suffer from several problems including poor ductility and fracture toughness unreliable properties fatigue and fracture resistance and unreliable corrosion resistance Now new third generation Al Li alloys with significantly reduced lithium content and other improvements are promising a revival for Al Li applications in modern aircraft and aerospace vehicles Over the last few years these newer Al Li alloys have attracted increasing global interest for widespread applications in the aerospace industry largely because of soaring fuel costs and the development of a new generation of civil and military aircraft This contributed book featuring many of the top researchers in the field is the first up to date international reference for Al Li material research alloy development structural design and aerospace systems engineering Provides a complete treatment of the new generation of low density AL Li alloys including microstructure

mechanical behaviour processing and applications Covers the history of earlier generation Al Li alloys their basic problems why they were never widely used and why the new third generation Al Li alloys could eventually replace not only traditional aluminum alloys but more expensive composite materials Contains two full chapters devoted to applications in the aircraft and aerospace fields where the lighter stronger Al Li alloys mean better performing more fuel efficient aircraft *Metals and Materials* Debashish Bhattacharjee,2011\* **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 **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 **Advances in Wrought Magnesium Alloys** Colleen Bettles,Matthew Barnett,2012-04-25 This important book summarises the wealth of recent research on our understanding of process property relationships in wrought magnesium alloys and the way this understanding can be used to develop a new generation of alloys for high performance applications After an introductory overview of current developments in wrought magnesium alloys part one reviews fundamental aspects of deformation behaviour These chapters are the building blocks for the optimisation of processing steps covered in part two which discusses casting extrusion rolling and forging technologies The concluding chapters cover applications of wrought magnesium alloys in automotive and biomedical engineering With its distinguished editors and drawing on the work of leading experts in the field *Advances in wrought magnesium alloys* is a standard reference for those researching manufacturing and using these alloys Summarises recent research on our understanding of process property relationships in wrought magnesium alloys Discusses the way this understanding can be used to develop a new generation of alloys for high performance applications Reviews casting extrusion rolling and forging technologies fundamental aspects of deformation behaviour and applications of wrought magnesium alloys in automotive and biomedical engineering *Mechanical and Aerospace Engineering, ICMAE2011* Wu Fan,2011-10-24 Selected peer reviewed papers from the 2nd International Conference on Mechanical and Aerospace Engineering ICMAE 2011 July 29 31 2011 Bangkok Thailand *Superplasticity in Advanced Materials* K. F. Zhang,2007 Interest in the phenomenon of superplasticity has been increasing steadily over the past thirty four years both from the viewpoint of fundamental scientific understanding as well as of industrial application The scope of superplasticity has also broadened materials wise and now includes in

addition to metals intermetallics ceramics bulk metallic glasses nanostructured materials and composites Superplasticity and Grain Boundaries in Ultrafine-Grained Materials Alexander P. Zhilyaev, Farid Z. Utyashev, Georgy I. Raab, 2020-11-21 Superplasticity and Grain Boundaries in Ultrafine Grained Materials Second Edition provides cutting edge modeling solutions surrounding the role of grain boundaries in processes such as grain boundary diffusion relaxation and grain growth In addition the book's authors explore the formation and evolution of the microstructure texture and ensembles of grain boundaries in materials produced by severe plastic deformation This updated edition written by leading experts in the field has been revised to include new chapters on the basics of nanostructure processing the influence of deformation mechanisms on grain refinement processing techniques for ultrafine grained and nanostructured materials and much more Provides practical applications and methods for the proper implementation of models allowing for more effective complex metal forming processes Features new chapters on the microstructure mechanical behavior and functional properties of HCP metals processing ultrafine grained and nanostructured materials and more Covers experimental assessment and computational modeling techniques for adiabatic heating and saturation of grain refinement during SPD of metals and alloys

**Superplasticity** K Anantha Padmanabhan, G.J. Davies, 2012-12-06 This is the second book in a new series Materials Research and Engineering devoted to the science and technology of materials Materials Research and Engineering evolves from a previous series on Reine und Allgemeine Metallkunde which was edited by Werner Koster until his eightieth birthday in 1976 Although the present series is an outgrowth of the earlier one it should not and cannot be regarded as a continuation There had to be a shift of scope and a change in presentation as well Metallurgy is no longer an isolated art and science Rather it is linked by its scientific basis and technological implications to non metallic and composite materials as well as to processes for production refining shaping surface treatment and application Thus the new series Materials Research and Engineering will present up to date information on scientific and technological progress as well as on issues of general relevance within the engineering field and industrial society Following the general position analysis of materials in the present world as given in volume 1 now volume 2 focuses on a special topic It provides a thorough treatment of theoretical experimental and applied aspects of superplasticity Handbook of Metallurgical Process Design George E. Totten, Kiyoshi Funatani, Lin Xie, 2004-05-25 Reviewing an extensive array of procedures in hot and cold forming casting heat treatment machining and surface engineering of steel and aluminum this comprehensive reference explores a vast range of processes relating to metallurgical component design enhancing the production and the properties of engineered components while reducing manufacturing costs It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear It also discusses alloy design for various materials including steel iron aluminum magnesium titanium super alloy compositions and copper 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

**PRICM 6** Young Won Chang,Nack-Joon Kim,Chong Soo Lee,2007 *Advances and Trends in Engineering Sciences and Technologies III* Mohamad Ali,Peter Platko,2019-03-25 These are the proceedings of the 3rd International Conference on Engineering Sciences and Technologies ESaT 2018 held from 12th 14th September 2018 in the High Tatras Mountains Tatransk Matliare Slovak Republic ESaT 2018 was organized under the auspices of the Faculty of Civil Engineering Technical University of Košice Slovak Republic in collaboration with Peter the Great St Petersburg Polytechnic University Russia after the successful organization with excellent feedback of the previous international conferences ESaT 2015 and ESaT 2016 The proceedings is covering various topics and disciplines in civil engineering sciences such as Buildings and Architectural Engineering Bearing Structures Material and Environmental Engineering Construction Technology and Management Building Physics and Facilities Geodesy Surveying and Mapping Geotechnics and Traffic Engineering The proceedings report on new and original progress and trends in various fields of engineering sciences that will be of interest to a wide range of academics and professionals from university and industry 116 papers originating from more than 10 countries have been accepted for publication in the conference proceedings Each accepted paper was reviewed by two reviewers selected according to the scientific area and orientation of the paper which guarantees topicality quality and an advanced level of the presented results



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