

# METALLURGICAL EFFECTS AT HIGH STRAIN RATES

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Springer

# Metallurgical Effects At High Strain Rates

**F. C. Holden, F. W. Boulger**



## **Metallurgical Effects At High Strain Rates:**

*Metallurgical Effects at High Strain Rates* R. Rohde, 2012-12-06 A conference on Metallurgical Effects at High Strain Rates was held at Albuquerque New Mexico February 5 through 8 1973 under joint sponsorship of Sandia Laboratories and the Physical Metallurgy Committee of The Metallurgical Society of AIME This book presents the written proceedings of the meeting The purpose of the conference was to gather scientists from diverse disciplines and stimulate interdisciplinary discussions on key areas of materials response at high strain rates In this spirit it was similar to one of the first highly successful conferences on this subject held in 1960 in Estes Park Colorado on The Response of Metals to High Velocity Deformation The 1973 conference was able to demonstrate rather directly the increased understanding of high strain rate effects in metals that has evolved over a period of roughly 12 years In keeping with the interdisciplinary nature of the meeting the first day was devoted to a tutorial session of invited papers to provide attendees of diverse backgrounds with a common basis of understanding Sessions were then held with themes centered around key areas of the high strain rate behavior of metals

*Metallurgical Effects at High Strain Rates* R. Rohde, 1973-09-01 A conference on Metallurgical Effects at High Strain Rates was held at Albuquerque New Mexico February 5 through 8 1973 under joint sponsorship of Sandia Laboratories and the Physical Metallurgy Committee of The Metallurgical Society of AIME This book presents the written proceedings of the meeting The purpose of the conference was to gather scientists from diverse disciplines and stimulate interdisciplinary discussions on key areas of materials response at high strain rates In this spirit it was similar to one of the first highly successful conferences on this subject held in 1960 in Estes Park Colorado on The Response of Metals to High Velocity Deformation The 1973 conference was able to demonstrate rather directly the increased understanding of high strain rate effects in metals that has evolved over a period of roughly 12 years In keeping with the interdisciplinary nature of the meeting the first day was devoted to a tutorial session of invited papers to provide attendees of diverse backgrounds with a common basis of understanding Sessions were then held with themes centered around key areas of the high strain rate behavior of metals

**Materials at High Strain Rates** T.Z. Blazynski, 1987-07-31 **METALLURGICAL EFFECTS AT HIGH STRAIN RATES** R.W. ROHDE, 1973 *Shock Waves and High-Strain-Rate Phenomena in Metals* Mare

Meyers, 2012-12-06 The scientific understanding of high velocity deformation has advanced substantially during the past decade On the one hand the framework for a theory explaining the metallurgical effects of shock waves is beginning to take shape on the other hand the technological applications of high strain rate processes have found their way into industries in countries around the world Explosive cladding welding forming compaction and consolidation cutting and hardening in addition to high energy rate deformation processes using other energy sources are some of the topics of contemporary technological importance Metallurgical effects are of the utmost importance in both the scientific understanding of the phenomena involved and in the successful development and utilization of the associated applications The international

conference upon which this book is based had as its major objectives the acceleration of progress in the field of high strain rate deformation and fabrication including applications by providing a forum for the exchange of state of the art information on the metallurgical effects of high strain rate deformation and fabrication and the organization of this information into a timely and coherent body of knowledge focused around significant areas and applications This volume is a manifestation of these objectives In addition the contents of this book were organized to provide for a somewhat logical perspective of the fundamentals development and state of the art applications of high strain rate and shock phenomena *Metallurgical Effects at High Strain Rates; [proceedings of a Technical Conference] Edited by R. W. Rohde [and Others]. ,*

**Metallurgical Effects at High Strain Rates** Rohde R. W.,1973      **Macro- and Micro-Mechanics of High Velocity Deformation and Fracture** Kozo Kawata,Jumpei Shioiri,2012-12-06 The IUTAM Symposium on Macro and Micro Mechanics of High Velocity Deformation and Fracture MMMHVDF August 12 15 1985 was held at Science Council of Japan under the sponsorship of IUTAM Science Council of Japan Japan Society for the Promotion of Science The Commemorative Association for the Japan World Exposition 1970 and The Japan Society for Aeronautical and Space Sciences The proposal of the symposium was accepted by the General Assembly of IUTAM and the scientists mentioned below were appointed by the Bureau of IUTAM to serve as member of the Scientific Committee The main object of the Symposium was to make a general survey of recent developments in the research of high velocity solid mechanics and to explore further new ideas for dealing with unsettled problems of fundamental nature as well as of practical importance The subjects covered theoretical experimental and numerical fields in macro and micro mechanics associated with high velocity deformation and fracture in solids covering metals ceramics polymers and composites      **High-Pressure Shock Compression of Solids** J.R. Asay,M. Shahinpoor,2012-12-06 This book presents a set of basic understandings of the behavior and response of solids to propagating shock waves The propagation of shock waves in a solid body is accompanied by large compressions decompression and shear Thus the shear strength of solids and any inelastic response due to shock wave propagation is of the utmost importance Furthermore shock compression of solids is always accompanied by heating and the rise of local temperature which may be due to both compression and dissipation For many solids under a certain range of impact pressures a two wave structure arises such that the first wave called the elastic precursor travels with the speed of sound and the second wave called a plastic shock wave travels at a slower speed Shock wave loading of solids is normally accomplished by either projectile impact such as produced by guns or by explosives The shock heating and compression of solids covers a wide range of temperatures and densities For example the temperature may be as high as a few electron volts 1 eV 11 500 K for very strong shocks and the densification may be as high as four times the normal density      *Nuclear Science Abstracts* ,1975-02      Adiabatic Shear Localization Bradley Dodd,Yilong Bai,2012-05-22 Rev ed of Adiabatic shear localization Y Bai and B Dodd 1992 1st ed      **Mechanical Behaviour of Engineering Materials** Y.M. Haddad,2013-06-29

This monograph consists of two volumes and provides a unified comprehensive presentation of the important topics pertaining to the understanding and determination of the mechanical behaviour of engineering materials under different regimes of loading. The large subject area is separated into eighteen chapters and four appendices, all self-contained, which give a complete picture and allow a thorough understanding of the current status and future direction of individual topics. Volume I contains eight chapters and three appendices and concerns itself with the basic concepts pertaining to the entire monograph together with the response behaviour of engineering materials under static and quasi-static loading. Thus Volume I is dedicated to the introduction of the basic concepts and principles of the mechanical response of engineering materials together with the relevant analysis of elastic, plastic and viscoelastic behaviour. Volume II consists of ten chapters and one appendix and concerns itself with the mechanical behaviour of various classes of materials under dynamic loading together with the effects of local and microstructural phenomena on the response behaviour of the material. Volume II also contains selected topics concerning intelligent material systems and pattern recognition and classification methodology for the characterization of material response states. The monograph contains a large number of illustrations, numerical examples and solved problems. The majority of chapters also contain a large number of review problems to challenge the reader. The monograph can be used as a textbook in science and engineering for third and fourth undergraduate levels as well as for the graduate levels. It is also a definitive reference work for scientists and engineers involved in the production, processing and applications of engineering materials as well as for other professionals who are involved in the engineering design process.

**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. **Metal Deformation Processing** F. W. Boulger, W. M. Baldwin (Jr), Allan H. Clauer, J. A. Houck, M. J. Klein, H. R. Ogden, C. N. Reid, Alan R. Rosenfield, Alvin M. Sabroff, D. E. Strohecker, 1964. As part of the Metalworking Process and Equipment Program, a survey was conducted to collect and summarize information on deformation characteristics of metals and their effect on processing operations. This report presents information obtained from reports on Government-sponsored work and from articles in technical publications. The report covers eight subjects: extrusion, forging, rolling, thermal mechanical variables affecting the properties of refractory metals and alloys, development of preferred orientations, anisotropy of strength and ductility, high

strain rate deformation and strain aging In order to be useful to engineering students and production engineers the topics are treated in two ways Generalized discussions of common processes point out why specific variables must be modified in order to deform certain types of metals satisfactorily When practical data on the more difficult to form metals are used to illustrate the principles limitations and effects of the processes The objective is to help the non specialist recognize the implications of specific findings and to apply them to specific operations Author **Dynamics of Materials** Lili

Wang, Liming Yang, Xinlong Dong, Xiquan Jiang, 2019-07-25 *Dynamics of Materials Experiments Models and Applications* addresses the basic laws of high velocity flow deformation and dynamic failure of materials under dynamic loading The book comprehensively covers different perspectives on volumetric law including its macro thermodynamic basis solid physics basis related dynamic experimental study distortional law including the rate dependent macro distortional law reflecting strain rate effect its micro mechanism based on dislocation dynamics and dynamic experimental research based on the stress wave theory The final section covers dynamic failure in relation to dynamic damage evolution including the unloading failure of a crack free body dynamics of cracks under high strain rate and more Covers models for applications along with the fundamentals of the mechanisms behind the models Tackles the difficult interdisciplinary nature of the subject combining macroscopic continuum mechanics with thermodynamics and macro mechanics expression with micro physical mechanisms Provides a review of the latest experimental methods for the equation of state for solids under high pressure and the distortional law under high strain rates of materials *Research in Progress*, 1974 *Energy Research Abstracts*, 1992

*Second Status Report of the U. S. Government Metalworking Processes and Equipment Program* F. C. Holden, F. W. Boulger, 1964 **The Science of Armour Materials** Ian Crouch, 2016-09-21 *The Science of Armour Materials* comprehensively covers the range of armor materials from steels and light alloys through glasses and ceramics to fibers textiles and protective apparel The book also discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies Each chapter is written from an international perspective including reviews of the current global literature and incorporates case studies that focus upon real life applications research outcomes and lessons learned The threat spectrum is restricted to small arms ammunition high velocity fragments and stab and spike attacks as well as blast loadings Features input from an editor who is an expert in his field Dr Ian Crouch the author of over 80 publications in his field with three patents to his name Provides systematic and comprehensive coverage of armor materials modeling and testing Offers a cross disciplinary approach that brings together expertise in materials science and defense engineering Discusses aspects of analytical and numerical modeling as well as laboratory based high strain rate testing and ballistic testing methodologies *Scientific and Technical Aerospace Reports*, 1964 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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## **Table of Contents Metallurgical Effects At High Strain Rates**

1. Understanding the eBook Metallurgical Effects At High Strain Rates
  - The Rise of Digital Reading Metallurgical Effects At High Strain Rates
  - Advantages of eBooks Over Traditional Books
2. Identifying Metallurgical Effects At High Strain Rates
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Metallurgical Effects At High Strain Rates
  - User-Friendly Interface
4. Exploring eBook Recommendations from Metallurgical Effects At High Strain Rates
  - Personalized Recommendations
  - Metallurgical Effects At High Strain Rates User Reviews and Ratings
  - Metallurgical Effects At High Strain Rates and Bestseller Lists
5. Accessing Metallurgical Effects At High Strain Rates Free and Paid eBooks
  - Metallurgical Effects At High Strain Rates Public Domain eBooks
  - Metallurgical Effects At High Strain Rates eBook Subscription Services

- Metallurgical Effects At High Strain Rates Budget-Friendly Options
- 6. Navigating Metallurgical Effects At High Strain Rates eBook Formats
  - ePub, PDF, MOBI, and More
  - Metallurgical Effects At High Strain Rates Compatibility with Devices
  - Metallurgical Effects At High Strain Rates Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Metallurgical Effects At High Strain Rates
  - Highlighting and Note-Taking Metallurgical Effects At High Strain Rates
  - Interactive Elements Metallurgical Effects At High Strain Rates
- 8. Staying Engaged with Metallurgical Effects At High Strain Rates
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Metallurgical Effects At High Strain Rates
- 9. Balancing eBooks and Physical Books Metallurgical Effects At High Strain Rates
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Metallurgical Effects At High Strain Rates
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Metallurgical Effects At High Strain Rates
  - Setting Reading Goals Metallurgical Effects At High Strain Rates
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Metallurgical Effects At High Strain Rates
  - Fact-Checking eBook Content of Metallurgical Effects At High Strain Rates
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends



- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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