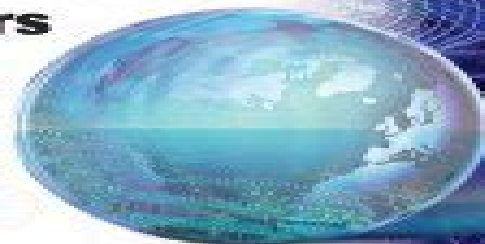


# SELECTED TOPICS IN **SHOCK WAVE PHYSICS AND EQUATION OF STATE MODELING**

**G Roger Gathers**

 **World Scientific**



# Selected Topics In Shock Wave Physics And Equation Of State Modeling

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## **Selected Topics In Shock Wave Physics And Equation Of State Modeling:**

*Selected Topics In Shock Wave Physics And Equation Of State Modeling* G Roger Gathers, 1994-04-28 This book deals primarily with the basic concepts used in shock wave physics for measuring the equation of state of materials for high pressures It provides considerably more detail in the development of the material than any competing book The material on EOS modeling describes the basic physics models used and the form they take in hydrocodes The models chosen are selected to show the wide variety of treatments Written for teaching seminars the book should benefit graduate students and interested physicists and engineers engaged in impact physics     Handbook of Shock Waves, Three Volume Set Gabi Ben-Dor, Ozer Igra, Tov Elperin, 2000-10-18 The Handbook of Shock Waves contains a comprehensive structured coverage of research topics related to shock wave phenomena including shock waves in gases liquids solids and space Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields compressible flow aerodynamics materials science and astrophysics Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction i e sonic boom that occurs when a jet breaks the speed of sound This Handbook contains experimental theoretical and numerical results which never before appeared under one cover the first handbook of its kind The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields Additionally R D establishments applied science research laboratories and scientific and engineering libraries both in universities and government institutions As well as undergraduate and graduate students in fluid mechanics gas dynamics and physics Key Features Ben Dor is known as one of the founders of the field of shock waves Covers a broad spectrum of shock wave research topics Provides a comprehensive description of various shock wave related subjects First handbook ever to include under one separate cover experimental theoretical and numerical results     **Shock Phenomena in Granular and Porous Materials** Tracy J. Vogler, D. Anthony Fredenburg, 2019-09-04 Granular forms of common materials such as metals and ceramics sands and soils porous energetic materials explosives reactive mixtures and foams exhibit interesting behaviors due to their heterogeneity and critical length scale typically commensurate with the grain or pore size Under extreme conditions of impact granular and porous materials display highly localized phenomena such as fracture inelastic deformation and the closure of voids which in turn strongly influence the bulk response Due to the complex nature of these interactions and the short time scales involved computational methods have proven to be powerful tools to investigate these phenomena Thus the coupled use of experiment theory and simulation is critical to advancing our understanding of shock processes in initially porous and granular materials This is a comprehensive volume on granular and porous materials for researchers working in the area of shock and impact physics The book is divided into three sections where the first presents the fundamentals of shock physics as it pertains to the equation of state compaction and strength properties of porous materials Building on these fundamentals the next section examines several applications where dynamic processes involving

initially porous materials are prevalent focusing on the areas of penetration planetary impact and reactive munitions The final section provides a look at emerging areas in the field where the expansion of experimental and computational capabilities are opening the door for new opportunities in the areas of advanced light sources molecular dynamics modeling and additively manufactured porous structures By intermixing experiment theory and simulation throughout this book serves as an excellent up to date desk reference for those in the field of shock compression science of porous and granular materials

Structure-Property Relationships under Extreme Dynamic Environments Cyril L. Williams, 2019-01-02 The inelastic response and residual mechanical properties acquired from most shock compressed solids are quite different from those acquired from quasi static or moderate strain rates For instance the residual hardness of many shock compressed metals has been found to be considerably lower than those loaded under quasi static conditions to the same maximum stress However the residual hardness of shock compressed metals is much higher than those loaded quasi statically to the same total strain These observations suggest that the deformation mechanisms active during inelastic deformation under shock compression and quasi static or moderate rates may be quite different Therefore the primary objective of this short book is to offer the reader a concise introduction on the Structure Property Relationships concerning shock compressed metals and metallic alloys via shock recovery experiments The first phase of the book chapters 1 through 3 provides a brief historical perspective on the structure property relationships as it pertains to shock compression science then plastic deformation in shock compressed metals and metallic alloys is described in terms of deformation slip deformation twinning and their consequences to spall failure Existing knowledge gaps and limitations on shock recovery experiments are also discussed The fundamentals of shock wave propagation in condensed media are presented through the formation and stability of shock waves then how they are treated using the Rankine Hugoniot jump relations derived from the conservation of mass momentum and energy The equation of states which govern the thermodynamic transition of a material from the unshock state to the shock state is briefly described and the elastic plastic behavior of shock compressed solids is presented at the back end of the first phase of this book The second phase of the book describes the geometry and design of shock recovery experiments using explosives gas and powder guns Then results derived from the residual mechanical properties microstructure changes and spall failure mechanisms in shock compressed metals and metallic alloys with FCC BCC and HCP crystal lattice structures are presented Also results on the residual microstructure of explosively compacted powders and powder mixtures are presented Lastly the book closes with the new frontiers in shock recovery experiments based on novel materials novel microscopes novel mechanical processing techniques and novel time resolved in situ XRD shock experiments

**Dynamic Behavior of Materials** Mikko Hokka, 2023-11-21 Dynamic Behavior of Materials Fundamentals Material Models and Microstructure Effects provides readers with the essential knowledge and tools necessary to determine best practice design modeling simulation and application strategies for a variety of materials while also covering the fundamentals of how material

properties and behavior are affected by material structure and high strain rates The book examines the relationships between material microstructure and consequent mechanical properties enabling the development of materials with improved performance and more effective design of parts and components for high rate applications Sections cover the fundamentals of dynamic material behavior with chapters studying dynamic elasticity and wave propagation dynamic plasticity of crystalline materials ductile fracture brittle fracture adiabatic heating and strain localization response to shock loading various material characterization methods such as the Hopkinson Bar Technique the Taylor Impact Experiment different shock loading experiments recent advances in dynamic material behavior the dynamic behaviors of nanocrystalline materials bulk metallic glasses additively manufactured materials ceramics concrete and concrete reinforced materials geomaterials polymers composites and biomaterials and much more Focuses on the relationship between material microstructure and resulting mechanical responses Covers the fundamentals characterization methods modeling techniques applications and recent advances of the dynamic behavior of a broad array of materials Includes insights into manufacturing and processing techniques that enable more effective material design and application

Dynamic Web Programming and HTML5 Paul S. Wang, 2012-11-21 With organizations and individuals increasingly dependent on the Web the need for competent well trained Web developers and maintainers is growing Helping readers master Web development Dynamic Web Programming and HTML5 covers specific Web programming languages APIs and coding techniques and provides an in depth understanding of the underlying concepts theory and principles The author leads readers through page structuring page layout styling user input processing dynamic user interfaces database driven websites and mobile website development After an overview of the Web and Internet the book focuses on the new HTML5 and its associated open Web platform standards It covers the HTML5 markup language and DOM new elements for structuring Web documents and forms CSS3 and important JavaScript APIs associated with HTML5 Moving on to dynamic page generation and server side programming with PHP the text discusses page templates form processing session control user login database access and server side HTTP requests It also explores more advanced topics such as XML and PHP MySQL Suitable for a one or two semester course at the advanced undergraduate or beginning graduate level this comprehensive and up to date guide helps readers learn modern Web technologies and their practical applications Numerous examples illustrate how the programming techniques and other elements work together to achieve practical goals Online Resource Encouraging hands on practice the book's companion website at <http://dwp.sofpower.com> helps readers gain experience with the technologies and techniques involved in building good sites Maintained by the author the site offers Live examples organized by chapter and cross referenced in the text Programs from the text bundled in a downloadable code package Searchable index and appendices Ample resource listings and information updates

Rock Dynamics and Applications - State of the Art Jian Zhao, Jianchun Li, 2013-05-13 Rock dynamics studies the response of rock materials and rock masses under dynamic loading conditions In the last a couple of

decades the development of experimental and computational techniques has been able to capture the progress of fracturing in microsecond steps allowing the exploration on how the fracture is initiated propagated and branched Fusion Science and Technology ,2005 **Failure of Brittle Materials Under Shock and Impact** Arunachalam M. Rajendran, Srinivasan Gopalakrishnan, Stephan J. Bless, 2024-12-03 The book focuses primarily on experimental and analytical methods developed over many years to characterize the deformation and fracture of brittle materials under dynamic loading conditions The dynamic response of brittle materials is highly nonlinear and complex with practical applications ranging from explosive excavation of rocks to the design of ceramic armor and the protection of spacecraft windows from meteor impacts It provides a comprehensive exploration of the challenges and methodologies involved in impact experiments and computational modeling of brittle solids under shock and impact loading making it essential reading for those seeking realistic solutions to blast and ballistic problems For example the book emphasizes the significance of validating numerical code solutions through simulations This involves understanding and evaluating the impact of various factors such as appropriate boundary conditions high resolution finite element meshes solution time steps contact algorithms interface modeling artificial viscosity erosion of elements particle conversion and model parameters on the accuracy of solutions It selectively presents examples of modeling and simulations of ballistic problems drawn from the open literature While numerous articles on the book's topic exist in the literature this volume integrates key aspects of high strain rate impact experiments modeling and simulations of brittle failure in ceramics rocks oil shale and cementitious materials across various stress and strain states To the best of the authors knowledge no other compilation covers such a wide array of experimental techniques used in this field particularly for ceramics yet adaptable for other heterogeneous brittle solids Despite the extensive literature on this subject most impact experimental configurations have been limited to specific geometries and have not encompassed the broad range of techniques necessary to characterize and validate constitutive behaviors used in modern numerical codes Many researchers and engineers are often unaware of the specialized experiments and models presented in international conference proceedings or technical presentations This book addresses that gap by encompassing a broader range of unique impact experiments constitutive and damage modeling and computational simulations not found in any existing publication

High-power Laser Ablation ,2004 **American Journal of Physics** ,1995 *Journal of Thermophysics and Heat Transfer* ,2000 This journal is devoted to the advancement of the science and technology of thermophysics and heat transfer through the dissemination of original research papers disclosing new technical knowledge and exploratory developments and applications based on new knowledge It publishes papers that deal with the properties and mechanisms involved in thermal energy transfer and storage in gases liquids and solids or combinations thereof These studies include conductive convective and radiative modes alone or in combination and the effects of the environment Chinese Physics Letters ,2008 **33rd Thermophysics Conference** ,1999 *Special Topics in Structural Dynamics & Experimental Techniques, Volume 5* David

S. Epp, 2020-09-18 Special Topics in Structural Dynamics Experimental Techniques Volume 5 Proceedings of the 38th MAC A Conference and Exposition on Structural Dynamics 2020 the fifth volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Analytical Methods Emerging Technologies for Structural Dynamics Engineering Extremes Experimental Techniques Finite Element Techniques General Topics

*Scientific and Technical Aerospace Reports* ,1977      Static and Dynamic High Pressure Mineral Physics Yingwei Fei, Michael J. Walter, 2022-11-24 High pressure mineral physics is a field that has shaped our understanding of deep planetary interiors and revealed new material phenomena occurring at extreme conditions Comprised of sixteen chapters written by well established experts this book covers recent advances in static and dynamic compression techniques and enhanced diagnostic capabilities including synchrotron X ray and neutron diffraction spectroscopic measurements in situ X ray diffraction under dynamic loading and multigrain crystallography at megabar pressures Applications range from measuring equations of state elasticity and deformation of materials at high pressure to high pressure synthesis thermochemistry of high pressure phases and new molecular compounds and superconductivity under extreme conditions This book also introduces experimental geochemistry in the laser heated diamond anvil cell enabled by the focused ion beam technique for sample recovery and quantitative chemical analysis at submicron scale Each chapter ends with an insightful perspective of future directions making it an invaluable source for graduate students and researchers      *The Cumulative Book Index* ,1996 A world list of books in the English language      **Applied Mechanics Reviews** ,1963      *Fusion Energy Update* ,1986

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