

# Relaxation in Shock Waves

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Losev, Aleksej I. Osipov**



## **Relaxation In Shock Waves:**

**Relaxation in Shock Waves** Y.V. Stupochenko, S.A. Losev, A.I. Osipov, 2012-12-06      **Relaxation in Shock Waves** E. V. Stupochenko, Y. V. Stupochenko, 1967      **Relaxation in Shock Waves** E. V. Stupočenko, Stalij A. Losev, Aleksej Iosifovič Osipov, 1967

**RELAXATION IN SHOCK WAVES**, 1967      **Advances in the Theory of Shock Waves** Heinrich Freistühler, Anders Szepessy, 2012-12-06 In the field known as the mathematical theory of shock waves very exciting and unexpected developments have occurred in the last few years Joel Smoller and Blake Temple have established classes of shock wave solutions to the Einstein Euler equations of general relativity indeed the mathematical and physical consequences of these examples constitute a whole new area of research The stability theory of viscous shock waves has received a new geometric perspective due to the work of Kevin Zumbrun and collaborators which offers a spectral approach to systems Due to the intersection of point and essential spectrum such an approach had for a long time seemed out of reach The stability problem for in viscid shock waves has been given a novel clear and concise treatment by Guy Metivier and coworkers through the use of paradifferential calculus The  $L^1$  semi group theory for systems of conservation laws itself still a recent development has been considerably condensed by the introduction of new distance functionals through Tai Ping Liu and collaborators these functionals compare solutions to different data by direct reference to their wave structure The fundamental properties of systems with relaxation have found a systematic description through the papers of Wen An Yong for shock waves this means a first general theorem on the existence of corresponding profiles The five articles of this book reflect the above developments      **Relaxation in shock waves** Evgenij V. Stupočenko, Stalij A. Losev, Aleksej I. Osipov, 1967

**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      **NASA Technical Note**, 1973      **Shock Waves and Reaction—Diffusion Equations** Joel Smoller, 2012-12-06 For this edition a number of typographical errors and minor slips have been corrected In addition following the persistent encouragement of Olga Oleinik I have added a new chapter Chapter 25 which I titled Recent Results This chapter is divided into four sections and in these I have discussed what I consider to be some of the important developments which have come about since the writing of the first edition Section I deals with reaction diffusion equations and in it are described both the work of C Jones on the stability of the travelling wave for the Fitz Hugh Nagumo equations and symmetry breaking bifurcations Section II deals with some recent results in shock wave theory The main topics considered are L Tartar's notion of compensated compactness together with its application to

pairs of conservation laws and T P Liu's work on the stability of viscous profiles for shock waves In the next section Conley's connection index and connection matrix are described these general notions are useful in constructing travelling waves for systems of nonlinear equations The final section Section IV is devoted to the very recent results of C Jones and R Gardner whereby they construct a general theory enabling them to locate the point spectrum of a wide class of linear operators which arise in stability problems for travelling waves Their theory is general enough to be applicable to many interesting reaction diffusion systems

**Shock Wave Compression of Condensed Matter** Jerry W Forbes, 2013-02-01 This book introduces the core concepts of the shock wave physics of condensed matter taking a continuum mechanics approach to examine liquids and isotropic solids The text primarily focuses on one dimensional uniaxial compression in order to show the key features of condensed matter's response to shock wave loading The first four chapters are specifically designed to quickly familiarize physical scientists and engineers with how shock waves interact with other shock waves or material boundaries as well as to allow readers to better understand shock wave literature use basic data analysis techniques and design simple 1 D shock wave experiments This is achieved by first presenting the steady one dimensional strain conservation laws using shock wave impedance matching which insures conservation of mass momentum and energy Here the initial emphasis is on the meaning of shock wave and mass velocities in a laboratory coordinate system An overview of basic experimental techniques for measuring pressure shock velocity mass velocity compression and internal energy of steady 1 D shock waves is then presented In the second part of the book more advanced topics are progressively introduced thermodynamic surfaces are used to describe equilibrium flow behavior first order Maxwell solid models are used to describe time dependent flow behavior descriptions of detonation shock waves in ideal and non ideal explosives are provided and lastly a select group of current issues in shock wave physics are discussed in the final chapter

**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      **Relaxation in Shock Waves** Evgenii Vladimirovich Stupochenko,1967      Shock Wave Reflection Phenomena Gabi Ben-Dor,2007-08-28 This book is a comprehensive state of the knowledge summation of shock wave reflection phenomena from a phenomenological point of view It includes a thorough introduction to oblique shock wave reflections dealing with both regular and Mach types It also covers in detail the corresponding two and three shock theories The book moves on to describe reflection phenomena in a variety of flow types as well as providing the resolution of the Neumann paradox      **Applied Physics and Engineering, Volume 1: Relaxation in Shock Waves** Ye. V. Stupochenko,S. A. Losev,A. I. Osipov,1967      **LASL Shock Hugoniot Data** Stanley P. Marsh,1980      A Technique for Determining Relaxation Times by Free-flight Tests of Low-fineness-ratio Cones: with Experimental Results for Air at Equilibrium Temperatures Up to 3440 K Jack D. Stephenson,1960 This report describes a technique which combines theory and experiments for determining relaxation times in gases The technique is based on the measurement of shapes of the bow shock waves of low fineness ratio cones fired from high velocity guns The theory presented in the report provides a means by which shadowgraph data showing the bow waves can be analyzed so as to furnish effective relaxation times Relaxation times in air were obtained by this technique and the results have been compared with values estimated from shock tube measurements in pure oxygen and nitrogen The tests were made at velocities ranging from 4600 to 12 000 feet per second corresponding to equilibrium temperatures from 35900 R 19900 K to 6200 R 34400 K under which conditions at all but the highest temperatures the effective relaxation times were determined primarily by the relaxation time for oxygen and nitrogen vibrations      **Theoretical Fluid Dynamics** Bhimsen K. Shivamoggi,2011-02-25 Although there are many texts and monographs on fluid dynamics I do not know of any which is as comprehensive as the present book It surveys nearly the entire field of classical fluid dynamics in an advanced compact and clear manner and discusses the various conceptual and analytical models of fluid flow Foundations of Physics on the first edition Theoretical Fluid Dynamics functions equally well as a graduate level text and a professional reference Steering a middle course between the empiricism of engineering and the abstractions of pure mathematics the author focuses on those ideas and formulations that will be of greatest interest to students and researchers in applied mathematics and theoretical physics Dr Shivamoggi covers the main branches of fluid dynamics with particular emphasis on flows of incompressible fluids Readers well versed in the physical and mathematical prerequisites will find enlightening discussions of many lesser known areas of study in fluid dynamics This thoroughly revised updated and expanded Second Edition features coverage of recent developments in stability and turbulence additional chapter end exercises relevant experimental information and an abundance of new material on a wide range of topics including Hamiltonian formulation Nonlinear water waves and sound waves Stability of a fluid layer heated from below Equilibrium statistical mechanics of turbulence Two dimensional turbulence      **Scientific and Technical Aerospace Reports** ,1992      NASA Technical Translation United States. National Aeronautics and Space

Administration, 1976      Nuclear Science Abstracts, 1970 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

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