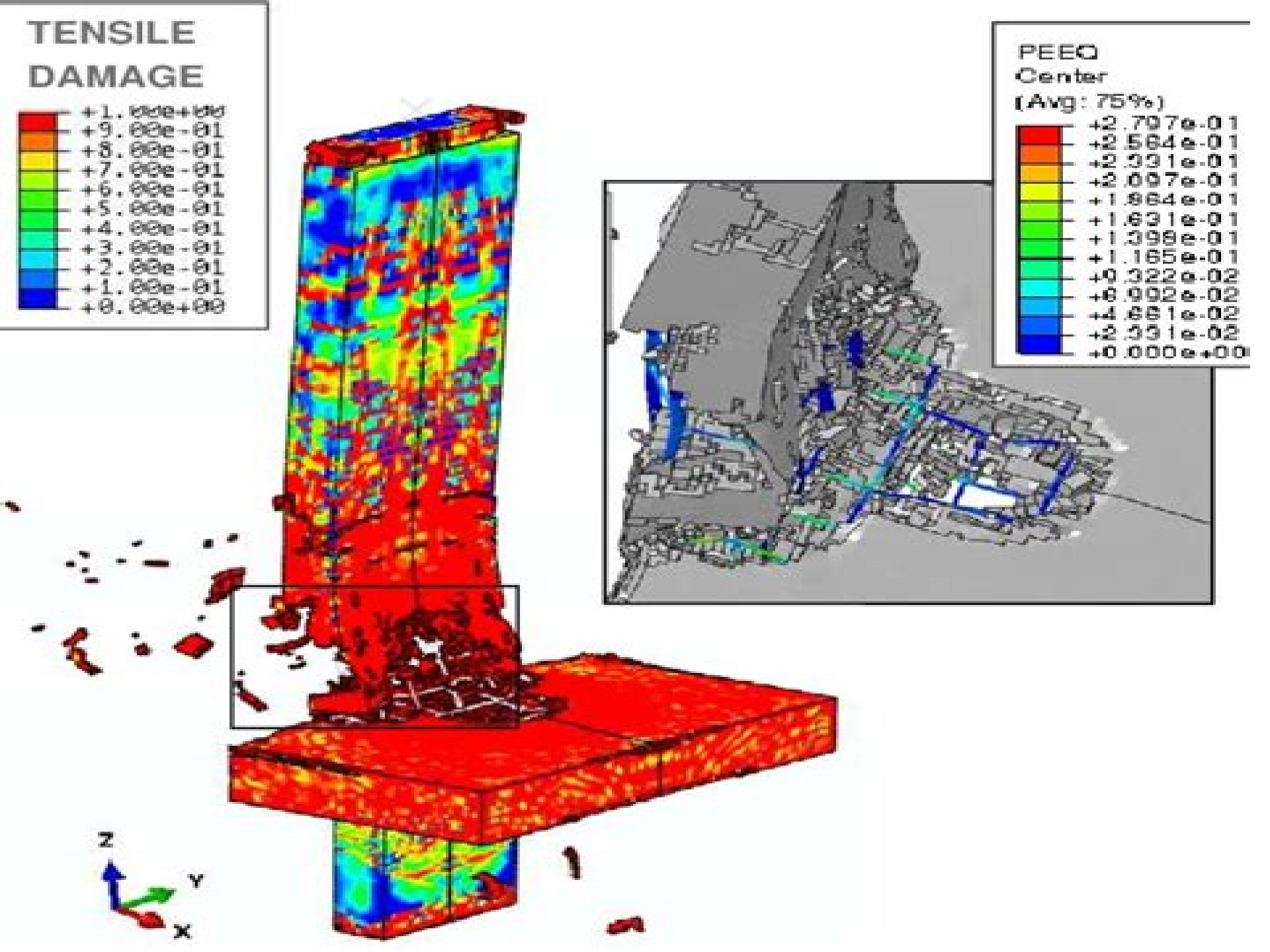
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Numerical Modeling Of Detonations

Los Alamos National Laboratory

Numerical Modeling Of Detonations:

Numerical Modeling of Explosives and Propellants, Second Edition Charles L. Mader,1997-08-29 Charles Mader a leading scientist who conducted theoretical research at Los Alamos National Laboratory for more than 30 years sets a new standard with this reference on numerical modeling of explosives and propellants This book updates and expands the information presented in the author s landmark work Numerical Modeling of Detonations published in 1979 and still in use today Numerical Modeling of Explosives and Propellants incorporates the considerable changes the personal computer has brought to numerical modeling since the first book was published and includes new three dimensional modeling techniques and new information on propellant performance and vulnerability Both an introduction to the physics and chemistry of explosives and propellants and a guide to numerical modeling of detonation and reactive fluid dynamics Numerical Modeling of Explosives and Propellants offers scientists and engineers a complete picture of the current state of explosive and propellant technology and numerical modeling The book is richly illustrated with figures that support the concepts and filled with tables for quick access to precise data The accompanying CD ROM contains computer codes that are the national standard by which modeling is evaluated Dynamic material properties data files and animation files are also included There is no other book available today that offers this vital information Numerical Modeling of Detonations Charles L. Mader,1979 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine Numerical Modeling of Detonation with Discrete Microstructure and Local Reactions ,2012 *Gaseous Detonation Physics and Its Universal Framework Theory* Zonglin Jiang,Honghui Teng,2022-12-16 This book highlights the theories and research progress in gaseous detonation research and proposes a universal framework theory that overcomes the current research limitations Gaseous detonation is an extremely fast type of combustion that propagates at supersonic speed in premixed combustible gas Being self sustaining and self organizing with the unique nature of pressure gaining gaseous detonation and its gas dynamics has been an interdisciplinary frontier for decades The research of detonation enjoyed its early success from the development of the CJ theory and ZND modeling but phenomenon is far from being understood quantitatively and the development of theories to predict the three dimensional cellular structure remains a formidable task being essentially a problem in high speed compressible reacting flow This theory proposed by the authors research group breaks down the limitation of the one dimensional steady flow hypothesis of the early theories successfully correlating the propagation and initiation processes of gaseous detonation and realizing the unified expression of the three dimensional structure of cell detonation The book and the proposed open framework is of high value for researchers in conventional applications such as coal mine explosions and chemical plant accidents and state of the art research fields such as supernova explosion new aerospace propulsion engines and detonation driven hypersonic testing facilities It is also a driving force for future research of detonation *Dynamic Aspects of Detonations* A. L. Kuhl,1993

Proceedings, Seventh Symposium (International) on Detonation ,1982 **Assessment of Safety and Risk with a Microscopic Model of Detonation** C.-O. Leiber,2003-04-25 Whereas the current plane wave homogeneous flow detonation physics is an excellent engineering tool for numerical predictions under given conditions the multi hot spot model is an additional tool for analyzing phenomena that cannot be explained by classical calculations The real benefit comes from being able to understand without any artificial assumptions the whole phenomenology of detonations and explosions By specifying pressure generating mechanisms one is able to see that the current treatment of the detonics of energetic materials is only a very special but powerful case of explosion events and hazards It becomes clear that physical explosions must be taken into account in any safety considerations In these terms it is easy to understand why even liquid carbon dioxide and inert silo materials can explode A unique collection of unexpected events which might surprise even specialists has resulted from the evaluation of the model *Detonation Control for Propulsion* Jiun-Ming Li,Chiang Juay Teo,Boo Cheong Khoo,Jian-Ping Wang,Cheng Wang,2017-12-05 This book focuses on the latest developments in detonation engines for aerospace propulsion with a focus on the rotating detonation engine RDE State of the art research contributions are collected from international leading researchers devoted to the pursuit of controllable detonations for practical detonation propulsion A system level design of novel detonation engines performance analysis and advanced experimental and numerical methods are covered In addition the world s first successful sled demonstration of a rocket rotating detonation engine system and innovations in the development of a kilohertz pulse detonation engine PDE system are reported Readers will obtain in a straightforward manner an understanding of the RDE PDE design operation and testing approaches and further specific integration schemes for diverse applications such as rockets for space propulsion and turbojet ramjet engines for air breathing propulsion Detonation Control for Propulsion Pulse Detonation and Rotating Detonation Engines provides with its comprehensive coverage from fundamental detonation science to practical research engineering techniques a wealth of information for scientists in the field of combustion and propulsion The volume can also serve as a reference text for faculty and graduate students and interested in shock waves combustion and propulsion **Dynamics of Detonations and Explosions** A. L. Kuhl,1991 **The Detonation Phenomenon** John H. S. Lee,2008-06-30 This book introduces the detonation phenomenon in explosives It is ideal for engineers and graduate students with a background in thermodynamics and fluid mechanics The material is mostly qualitative aiming to illustrate the physical aspects of the phenomenon Classical idealized theories of detonation waves are presented first These permit detonation speed gas properties ahead of and behind the detonation wave and the distribution of fluid properties within the detonation wave itself to be determined Subsequent chapters describe in detail the real unstable structure of a detonation wave One two and three dimensional computer simulations are presented along with experimental results using various experimental techniques The important effects of confinement and boundary conditions and their influence on the propagation of a detonation are also discussed The final

chapters cover the various ways detonation waves can be formed and provide a review of the outstanding problems and future directions in detonation research *Detonation of Condensed Explosives* Roger Cheret,2012-12-06 This work marks a stage in the evolution of a scientific and technical field which has been developed by the Commissariat a l Energie Atomique CEA over several decades Many members of the staff of the CEA have won re nown in this field and their work has brought it to the high degree of excel lence for which it is internationally recognized today These scientists had to consider every aspect of the field as it concerned modeling which has recourse to fluid thermodynamics molecular phys ics and chemistry numerical evaluation which relies on mathematical analysis and data processing and experiments in the firing area which require specific stress generators and instrumentation Whilst this book is a testament to the activity and success of staff of the CEA it also reviews a number ofthe advances made in the discipline How ever it is not intended to be an exhaustive account of those advances it is assumed that the reader can if desired consult the standard monographs and more recent more specialized works notably W C Davis and W Fickett and C L Mader The history of the discipline is interesting in itself and also as an illustra tion of the causes which lead to progress in a coherent body of scientific work I should like to make some comments on this progress of which there is a fascinating summary in the introduction and which will figure largely throughout the work Sixth International Conference on Nonlinear Mechanics (ICNM-6) Zhe-wei Zhou,2013-08-30 Novel mathematical and modeling approaches to problems in graded materials biological materials fluid mechanics and more Covers nanomechanics multi scale modeling interface mechanics and microstructure This series volume contains 128 not previously published research presentations on using nonlinear mechanics to understand and model a wide variety of materials including polymers metals and composites as well as subcellular and cellular tissues Focus is on numerical and physics approaches to representing multiscale relationships within complex solids and fluids systems with applications in materials science energy storage medical diagnostics and treatment and biotechnology TABLE OF CONTENTS Preface Committees SESSION 1 INVITED LECTURES Micro Macro Analysis of Creep and Damage Behavior of Multi Pass Welds Some New Developments in Non Linear Solid Mechanics Design of Material Systems Mathematics and Physics of the Archetype Genome Exemplar Criticism of Generally Accepted Fundamentals and Methodologies of Traffic and Transportation Theory SESSION 2 NONLINEAR CONTINUUM MECHANICS Geometrically Nonlinear Analysis of Simple Plane Frames of Functionally Graded Materials Thermal Post Buckling of FG Circular Plates Under Transversely Point Space Constraint Tunability of Longitudinal Wave Band Gap in One Dimensional Magneto Elastic Phononic Crystal Teaching Nonlinear Mechanics at the Undergraduate and Graduate Level Two Examples Geometrically Nonlinear FE Instability Simulations of Hinged Composite Laminated Cylindrical Shells Constitutive Relation of Martensitic Transformation in CuAlNi Based on Atomistic Simulations Soft Behaviors of Beam Shaped Liquid Crystal Elastomers Under Light Actuations XFEM Based Discontinuity Simulation for Saturated Soil Numerical Algorithm of Solving the Problem of Large Elastic Plastic Deformation

by FEM Finite Deformation for Everted Compressible Hypereleastic Cylindrical Tubes Modelling and Non Linear Free Vibrations of Cable Stayed Beam Wavelet Solution of a Class of Nonlinear Boundary Value Problems Axial Compression of a Rectangular Rubber Ring Composed of an Incompressible Mooney Rivlin Material Influence of Concentration Dependent Elastic Modulus and Charge or Discharge Rate on Tensile Stress in Anode An Integral Equation Approach to the Fully Nonlinear Fluid Flow Problem in an Infinite Channel Over Arbitrary Bottom Topography Analysis of Nonlinear Dynamical Characteristics for Thermoelastic Half Plane with Voids Tensor Model for Dynamic Damage of Ductile Metals Over a Wide Range of Strain Rates SESSION 3 MULTI SCALE MECHANICS AND MULTI PHYSICS MODELING The Nonlinear Magnetoelectric Effect of Layered Magnetoelectric Composite Cylinder with an Imperfect Interface A Solution for Nonlinear Poisson Neumann Problem of Nb3Sn Superconducting Transport Current Temperature Effect on the Tensile Mechanical Properties of Graphene Nanoribbons Square Inclusion with a Nonlinear Eigenstrain in an Anisotropic Piezoelectric Full Plane Nonlinear Analysis of the Threaded Connection with Three Dimensional Finite Element Model Effects of Particle Volume Fraction on the Macro Thermo Mechanical Behaviors in Plate Type Dispersion Nuclear Fuel Elements Mechanics of Semiflexible Polymer Chains Under Confinements Study on the Solution of Reynolds Equation for Micro Gas Bearings Using the Alternating Direction Implication Algorithm Atomistic Study of Li Concentration Dependence of the Mechanical Properties of Graphite Anode in Li ion Battery 3D Extrusion Simulation of the Single Screw Head and Optimization Design Buckling Behavior of Defective Carbon Nanotubes Elastic Properties of Single Stranded DNA Biofilm with Strong Interactions Analysis on Thickness Dependence of Jc Caused by Dislocations and Grain Boundaries in YBCO Superconducting Films Operating Strain Response in CICC Coils Through Nonlinear Finite Element Modeling Dynamics Analysis of a Multi Degree of Freedom Electro Hydraulic Mix Drive Motion Simulator by KANE Equation Multiscale 3D Fracture Simulation Integrating Tomographic Characterization Research into Compressive Mechanical Properties of Special Piezomagnetic Material Sheets A Numerical Study on Detonation Wave Propagation Using High Precision and High Resolution Schemes SESSION 4 STRUCTURAL DYNAMIC AND STRUCTURE FLUID INTERACTIONS A Study on Pure IL VIV of a Marine Riser in Shear Current Parametric Studies on Nonlinear Flutter of High Aspect Ratio Flexible Wings Model Reduction of a Flexible Beam Rotating at High Speed Considering Dynamic Stiffening Vibration Modal Analysis of Cantilever Beams with Complicated Elasticity Boundary Constraint Numerical Simulation of Ahmed Model in Consideration of the FSI Effect Aerodynamic Damping of a Hammerhead Launch Vehicle in Transonic Flow Symmetry Reductions and Explicit Solutions of 3 1 Dimensional Kadomtsev Petviashvili KP Equation Nonlinear Behaviors of an Isotropic Incompressible Hyperelastic Spherical Membrane Under Different Dynamic Loads Creep Buckling of Viscoelastic Plate Consdering Higher Order Modes SESSION 5 COMPLEX FLUID FLOW AND NONLINEAR STABILITY Homotopy Analysis of Korteweg de Vries Equation with Time Delay Homotopy Analysis Method for Bubble Pulsation Equation with Nonlinear Term of Fractional Power Chebyshev

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Measurements for Mechanical and Electrical Conductive Properties of CNT Bundles Analysis on Dynamic Response of Bedding Rock Slope with Bolts under Earthquakes Numerical Prediction of Aerodynamic Noise Radiated from High Speed Train Pantograph Effects of Length on Aerodynamics of High Speed Train Models Free Convection Nanofluid Flow in the Stagnation Point Region of a Three Dimensional Body Vertical Distribution and Dynamic Release Characteristics of Pollutants from Resuspended Sediment Numerical Simulation of the Contaminant Release Through the Sediment Overlying Water Interface Analysis on the Aerodynamic and Aero Noise of MIRA Model Radial Squeeze Force of MR Fluid Between Two Cylinders Nonlinear Buckling Analysis and Ultimate Extended Capacity Research of Downhole Pipe Strings in Ultra Deep Horizontal Wells A Novel Method of Generating Nonlinear Internal Wave in a Stratified Fluid Tank and Its Theoretical Model SESSION 8 MINI SYMPOSIUM ON TRAFFIC FLUID Study on Correlation Analysis of Synchronized Flow in the Kerner Klenov Wolf Cellular Automation Model Numerical Simulation of Traffic Flow in the Rain or Snow Weather Condition First Order Phase Transitions in the Brake Light Cellular Automation Model Within the Fundamental Diagram Approach The Leader Follower Winding Behavior of Pedestrians in a Queue Effect of Overpasses in Two Dimensional Traffic Flow Model with Random Update Rule Analysis of the Density Wave in a New Continuum Model The Phenomenon of High Speed Car Following on Chinese Highways A Lattice Hydrodynamic Model Considering the Difference of Density and its Analysis Experimental Feature of Car Following Behaviors in a Platoon of 25 Vehicles Car Following Model for Manual Transmission Vehicles The Mechanism of Synchronized Flow in Traffic Flow Modeling An Asymmetric Stochastic Car Following Model Based on Extended Tau Theory A Gaussian Distribution Based Dual Cognition Driver Behavior Model at Cross Traffic A New Traffic Kinetic Model Considering Potential Influence The Effect of Marks on the Pedestrian Evacuation Equilibrium Velocity Distribution Function for Traffic Flow Effects of Antilock Braking System on Driving Behavior Under Emergent Stability Analysis of Pedestrian Flow in Two Dimensional Optimal Velocity Model with Asymmetric Interaction Simulation Based Stability Analysis of Car Following Models Under Heterogeneous Traffic Crossing Speed of Pedestrian at an Unsignalized Intersection Modeling Mixed Traffic Flow at a Crosswalk with Push Button Effects of Game Strategy Update on Pedestrian Evacuation in a Hall Study on Long Term Correlation of CO and CO2 from Vehicle Emissions on Roadsides with the Detrended Fluctuation Analysis Method Bottleneck Effect on a Bidirectional Two Lane Mixed Traffic Flow **Scientific and Technical Aerospace Reports** ,1992 Shock Waves Science and Technology Library, Vol. 6 F. Zhang,2012-03-19 This book as a volume of the Shock Wave Science and Technology Reference Library is primarily concerned with the fundamental theory of detonation physics in gaseous and condensed phase reactive media The detonation process involves complex chemical reaction and fluid dynamics accompanied by intricate effects of heat light electricity and magnetism a contemporary research field that has found wide applications in propulsion and power hazard prevention as well as military engineering The seven extensive chapters contained in this volume are Chemical Equilibrium Detonation S Bastea and LE

Fried Steady One Dimensional Detonations A Higgins Detonation Instability HD Ng and F Zhang Dynamic Parameters of Detonation AA Vasiliev Multi Scaled Cellular Detonation D Desbordes and HN Presles Condensed Matter Detonation Theory and Practice C Tarver Theory of Detonation Shock Dynamics JB Bdzil and DS Stewart The chapters are thematically interrelated in a systematic descriptive approach though each chapter is self contained and can be read independently from the others It offers a timely reference of theoretical detonation physics for graduate students as well as professional scientists and engineers **30th International Symposium on Shock Waves 1** Gabi Ben-Dor,Oren Sadot,Ozer Igra,2017-08-09 These proceedings collect the papers presented at the 30th International Symposium on Shock Waves ISSW30 which was held in Tel Aviv Israel from July 19 to July 24 2015 The Symposium was organized by Ortra Ltd The ISSW30 focused on the state of knowledge of the following areas Nozzle Flow Supersonic and Hypersonic Flows with Shocks Supersonic Jets Chemical Kinetics Chemical Reacting Flows Detonation Combustion Ignition Shock Wave Reflection and Interaction Shock Wave Interaction with Obstacles Shock Wave Interaction with Porous Media Shock Wave Interaction with Granular Media Shock Wave Interaction with Dusty Media Plasma Magnetohyrdrodynamics Re entry to Earth Atmosphere Shock Waves in Rarefied Gases Shock Waves in Condensed Matter Solids and Liquids Shock Waves in Dense Gases Shock Wave Focusing Richtmyer Meshkov Instability Shock Boundary Layer Interaction Multiphase Flow Blast Waves Facilities Flow Visualization and Numerical Methods The two volumes serve as a reference for the participants of the ISSW30 and anyone interested in these fields *Dynamic Aspects of Explosion Phenomena* A. L. Kuhl,1993 Proceedings ,1982 **Effects of fuel distribution on detonation tube performance** , **Dynamics of Heterogeneous Combustion and Reacting Systems** A. L. Kuhl,1993 **Publications of Los Alamos Research** Los Alamos National Laboratory,1983

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