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 Dependence in Premixed Transient Deflagrations"; "Corrections to  
 Zel'dovich's "Spontaneous Flame" and the Onset of Explosion via  
 Nonuniform Preheating"; "Numerical and Experimental Studies of  
 Flame Propagation Through a Grid"; "Experimental Study of Large-  
 Scale Unconfined Fuel Spray Detonations"  
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 "Detonation Processes in Dusty Mixtures of Different Oxygen  
 Contents"; "Measurements of Cellular Structure in Spray Detonation";  
 "Experimental Investigations of Accelerating Flames and Transition to  
 Detonation in Layered Grain Dust"; "Enhancement and Generation of  
 Detonations Using Dust Layers"; "Detonability of Organic Dust-Air  
 Mixtures"  
 "Two-Head Detonation Structure in Cornstarch-Oxygen Mixtures""  
 Detonation Wave Propagation in Combustible Mixtures with Variable  
 Particle Density Distributions"; "Structure of Detonation Waves in a  
 Vacuum with Propellant Particles"; "Effect of Inert Particle Evaporation  
 on the Chemical Reaction in a Combustible Medium"; "Ignition  
 Mechanism of Coal Suspension in Shock Waves"; "Chapter III. Vapor  
 Explosions"; "Developments of the CULDESAC Physical Explosion  
 Model"; "Behavior of Free-Falling Boiling Spheres with Relation to  
 Vapor Explosion Phenomena"  
 "Effect of Fluid Flow Velocity on the Fragmentation Mechanism of a Hot  
 Melt Drop"" "Implications for the Existence of Thermal Detonations from  
 Equilibrium Hugoniot Analysis"; "Flash X-Ray Visualization of the  
 Steam Explosion of a Molten Metal Drop"; "Onset of Boiling Liquid  
 Expanding Vapor Explosion"; "Models of Rapid Evaporation in  
 Nonequilibrium Mixtures of Tin and Water"; "Shock Waves by Sudden  
 Expansion of Hot Liquid"; "Thermal Detonation in Molten Sn-Water  
 Suspension"; "Chapter IV. Nonsteady Flows"; "Analysis of  
 Combustion Processes in a Mobile Granular Propellant Bed"  
 "Unstable Wall Layers Created by Shock Reflections"" "Numerical  
 Prediction of Mechanism on Oscillatory Instabilities in Shock-Induced  
 Combustion"; "Influence of Nonequilibrium Processes on Gasdynamic  
 Parameters of Nonstationary Supersonic Jets"; "Shock Waves in Self-  
 Propagating High-Temperature Synthesis Research"; "Author Index"

## Sommario/riassunto

The four companion volumes on Dynamic Aspects of Detonations and  
 Explosion Phenomena and Dynamics of Gaseous and Heterogeneous  
 Combustion and Reactive Systems present 111 of the 230 papers given  
 at the Thirteenth International Colloquium on the Dynamics of  
 Explosions and Reactive Systems held in Nagoya, Japan. These books  
 embrace the topics of explosions, detonations, shock phenomena, and  
 reactive flow, as well as the gasdynamic aspects of nonsteady flow in  
 combustion systems, the fluid mechanics aspects of combustion, and  
 diagnostic techniques. Two of the volumes, Dynamics of Gaseous  
 Combustion (Vol. 151) and Dynamics of Heterogeneous Combustion  
 and Reacting Systems (Vol. 152), focus on the processes of coupling  
 the exothermic energy release with the fluid mechanics occurring in  
 various combination processes. The other two volumes, Dynamic  
 Aspects of Detonations (Vol. 153) and Dynamic Aspects of Explosion  
 Phenomena (Vol. 154), address the rate processes of energy deposition  
 in a compressible medium and the concurrent nonsteady flow as it  
 typically occurs in explosion phenomena.