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Nota di contenuto

""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Chapter I. Ignition Dynamics""; ""Ignition Processes in Hydrogen-Oxygen Mixtures and the Influence of the Uniform Pressure Assumption""; ""Relationship Between Ignition Delay and Reaction Zone Energy Release""; ""Study of Methane Ignition in Reflected Shock Waves""; ""Ignition Processes of Falling Droplet Columns Behind a Reflected Shock""; ""Low-Temperature Ignition of Acetaldehyde Oxygen Mixtures Initiated by Organic Peroxides Adsorbed on a Reaction Vessel Surface""; ""Chapter II. Flame Chemistry""  
""Systematic Reduction of Flame Kinetics: Principles and Details""  
""Sensitivity Analysis in Aliphatic Hydrocarbon Combustion""; ""Study of the Influence of Nitrogen Oxides on the Chemi-ionization in C<sub>2</sub>H<sub>2</sub>/O<sub>2</sub>/Ar Flames""; ""Chapter III. Diffusion Flames in Shear Flows""; ""Asymptotic Analysis of the Structure and Extinction of Methane-Air Diffusion Flames""; ""Structure and Extinction Limits of Some Strained Premixed Flames""; ""Influences of a Tangential Shear Flow and Differential Diffusion on Hydrodynamic Flame Stability""  
""Simulation of Stretched Premixed CH<sub>4</sub>-Air and C<sub>3</sub>H<sub>8</sub>-Air Flames with Detailed Chemistry"" ""Stability of a Premixed Laminar V-Shaped Flame""; ""Flame Propagation in a Nonuniform Mixture: The Structure of Anchored Triple-Flames""; ""Chapter IV. Dynamics of Flames""; ""Fluid Mechanical Properties of Flames in Enclosures""; ""Dynamic Effects of Flame Baroclinicity""; ""Flame Propagation Model by Use of Finite-Difference Methods""; ""Numerical Study on the Reaction Process in a Plane Shear Layer""; ""Flame Front Turbulence Behavior in an Accelerating or Decelerating Methane-Air Mixture""  
""Mechanism of Gas Flame Acceleration in the Presence of Neutral Particles"" ""Possible Acoustic Source in Turbulent Combustion""; ""Structure of Unsteady and Steady Hydrogen/Air Premixed Flames""; ""Flame Flashback for Low Reynolds Number Flows""; ""Chapter V. Combustion Diagnostics""; ""Diagnostics in Reacting Flows""; ""Multidirection Speckle Photography of Density Gradients in a Flame""; ""Investigations of the Instantaneous Density Field of Tubulent Premixed Conical Flames""; ""Author Index""

Sommario/riassunto

Papers from the colloquium held August 1987. The first part of the two-volume set covers flames: ignition dynamics, flame chemistry, diffusion flames in shear flow, dynamics of flames, combustion diagnostics. Part two is focused on heterogeneous combustion and applications.