1.	Record Nr.	UNINA9910457211603321
	Titolo	Dynamics of deflagrations and reactive systems [[electronic resource]]: flames / / edited by A.L. Kuhl [et al.]
	Pubbl/distr/stampa	Washington, D.C., : American Institute of Aeronautics and Astronautics, c1991
	ISBN	1-60086-604-2 1-60086-385-X
	Descrizione fisica	1 online resource (439 p.)
	Collana	Progress in astronautics and aeronautics ; ; v. 131
	Altri autori (Persone)	KuhlA. L
	Disciplina	629.1 s 541.3/61
	Soggetti	Flame Gas dynamics Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"Technical papers presented from the Twelfth International Colloquium on Dynamics of Explosions and Reactive Systems, Ann Arbor, Michigan, July 1989, and subsequently revised for this volume."
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Chapter I. Ignition Dynamic""; ""Detailed Numerical Modeling of H2-O2 Ignition by Hot Spots""; ""Ignition Phenomena in H2-O2 Mixtures""; ""Ignition of Fresh Mixtures Injected into Burned Gases""; ""Analysis of Ignition Mechanism of Combustible Mixtures by Short-Duration Sparks""; ""Flat Plate Boundary Layer Ignition with Fuel Thermal Diffusion""; ""Chapter II. Diffusion Flames and Shear Effects""; ""Analysis of the Structure of Counterflow Hydrogen-Air Diffusion Flames"" ""Flame Structure of Axisymmetric Hydrogen-Air Diffusion Flames""" Numerical Modeling of the Structure and Properties of Tubular Strained Laminar Premixed Flames""; ""Simulation of Partially Premixed Methane-Air Counterflow-Diffusion Flames and Comparison with Experimental Results""; ""Extinction of Premixed Curved Flames Stabilized in a Stagnation Flow""; ""Chapter III. Dynamics of Flames and Shear Layers""; ""Dynamics of an Unsteady Diffusion Flame:Effects of Heat Release and Viscosity""; ""Dynamics of Turbulent Diffusion Flame Surface""

""Structure of the Reaction Zone in a Reacting Mixing Layer"""Flow-Combustion Interactions in a Turbulent Jet"": ""Chapter IV. Turbulent Flames""; ""Investigation on the Laminar and Turbulent Burning Velocities of Premixed Lean and Rich Flames of CH4-H2-Air Mixtures"; ""Geometry Effects on Premixed Turbulent Propagating Flames""; ""Multivariate PDF Closure Applied to Oxidation of CO in a Turbulent Flow""; ""Modeling Turbulent Reacting Flows: Detailed Chemical Reaction Mechanisms and Sensitivity Analysis""; ""Numerical Simulation of a Premixed Flame in a Turbulent Boundary Layer"" ""Chapter V. Flame Propagation in Combustion Engines"""Flame Imaging Studies of Flame Development in a SI Four-Stroke Engine"; ""Flame Propagation Behavior in a Variable Hydrodynamic Constant Volume Combustion Chamber""; ""Effect of Turbulent Fluid Motion on Low-Temperature Autoignition of Fuel-Air Mixture Under Piston Compression""; ""Experimental Study of N-Butane Autoignition in a Rapid Compression Machine""; ""Author Index""