

1. Record Nr.	UNINA9910781403003321
Titolo	Advances in combustion science [[electronic resource] ] : in honor of Ya. B. Zel'dovich / / edited by William A. Sirignano, Alexander G. Merzhanov, Luigi De Luca
Pubbl/distr/stampa	Reston, Va., : American Institute of Aeronautics and Astronautics, Inc., 1997
ISBN	1-60086-645-X 1-60086-426-0
Descrizione fisica	1 online resource (374 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 173
Altri autori (Persone)	LucaLuigi De MerzhanovAleksandr Grigorevich SirignanoW. A ZeldovichIA. B (IAkov Borisovich)
Disciplina	629.47
Soggetti	Combustion Combustion engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Biography""; ""I. Flame Theory""; ""Chapter 1 Zel'dovich's Accomplishments in Combustion Science""; ""Chapter 2 Combustion Theory in the Post-Zel'dovich Period""; ""Chapter 3 Nonequilibrium Theory of Flame Propagation""; ""Chapter 4 Triple Flames as Agents for Restructuring of Diffusion Flames""; ""Chapter 5 Kinetic Foundation of Thermal Flame Theory""; ""II. Heterogeneous Combustion""; ""Chapter 6 Filtration Combustion""; ""Chapter 7 Metal Slurry Droplet and Spray Combustion"" ""Chapter 8 Flame Spread Across Condensed Combustibles""""Chapter 9 Phenomenon of Nonthermal Propagation of Flameand Nonlinear Chain Branching""; ""III. Unsteady and Cellular Combustion""; ""Chapter 10 Cellular Flame Patterns and Dynamics""; ""Chapter 11 Numerical Simulation of Unsteady Combustion""; ""Color Plates""; ""Chapter 12 Intrinsic Stability of Energetic Solids Burning under Thermal Radiation""; ""IV. Turbulent Combustion""; ""Chapter 13 Turbulent Combustion

Modeling: Ignition and Initial Period of Propagation"

"Chapter 14 Flame Curvature as a Determinant of Preferential Diffusion Effects in Premixed Turbulent Combustion""Chapter 15 Gasdynamic Model of Turbulent Exothermic Fields in Explosions"; "Color Plates"; "Chapter 16 Combustion Theory and Conditional Moment Closure Modeling"; "V. Explosions and Detonations"; "Chapter 17 Nonequilibrium Phenomena in Combustion and Explosion"; "Chapter 18 Initiation of Detonation by a Hypervelocity Projectile"; "Chapter 19 Theory of Gaseous Detonations"; "Chapter 20 Modern View of Gas Detonation Mechanisms""Chapter 21 Zel'dovich Theory of Detonability Limits""Author Index"

---