1. Record Nr. UNINA9910781420103321

Titolo	Dynamics of detonations and explosions [[electronic resource]] : explosion phenomena / / edited by A.L. Kuhl ... [et al.]
Pubbl/distr/stampa	Washington, D.C., : American Institute of Aeronautics and Astronautics, c1991
ISBN	1-60086-607-7 1-60086-388-4
Descrizione fisica	1 online resource (429 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 134
Altri autori (Persone)	KuhlA. L
Disciplina	629.1 s 541.3/61
Soggetti	Explosions Gas dynamics
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. Vapor Cloud Explosions""; ""Scaling of Vapor Cloud Explosions After Turbulent Jet Release""; ""Effect of Asymmetric Ignition on the Vapor Cloud Spatial Blast""; ""Experimental Investigation Concerning the Influenceof Turbulence on the Flame Front Velocity of FuelGas-Air Mixture Deflagrations""; ""Mechanism of Flame Acceleration Alonga Tube With Obstacles""; ""Explosion in a Vented Vessel Connected to a Duct"" ""Modelization and Validation Tests of the Dischargein Air of a Vessel Pressurized by a Flammable Gas""""""Applicability of a Chemical-Equilibrium Modelto Explosion Products""; ""Inverse Numerical Process for Inlet ConditionsCalculus from Experimental Front Determination""; ""Chapter II. Blast Wave Reflections and Interactions""; ""Reflection of Shock and Explosion Waves from Surfaces Covered with Layers of Polyurethane Foam""; ""Simulating the Impact Made by a Shock Wave on aBody Surrounded by a Layer of Hot or Cold Gas""; ""Turbulent Wall Jet in a Mach Reflection Flow"" ""Numerical Simulation of the Change in theSupersonic Flow Past a Body

Produced by Switchingon a Nearby Heat Source""""""Shock Waves Produced by Reflected Detonations""; ""Spherical Wave Interaction with a Liquid-AirInterface: Analysis of the Holographic Results""; ""Formation of Zones with High ParticleConcentrations in Dusty Gas""; ""Chapter III. Vapor Explosions""; ""Shock Waves From Vapor Explosion in aShock Tube""; ""Dynamics of Explosive Interactions Between MoltenTin and Water in Stratified Geometry""; ""Steam Explosion Studies with Molten Iron-AluminaGenerated by Thermite Reactions""
""Application of the Integrated Fuel-CoolantInteraction Code to a FITS-TypePouring Mode Experiment""""""Multiphase Physical Explosion ModelingUsing the CULDESAC Code""; ""Author Index""