Record Nr. UNINA9910823101603321 Dynamics of detonations and explosions [[electronic resource]]: **Titolo** detonations / / edited by A.L. Kuhl ... [et al.] Pubbl/distr/stampa Washington, D.C.,: American Institute of Aeronautics and Astronautics, c1991 **ISBN** 1-60086-606-9 1-60086-387-6 Descrizione fisica 1 online resource (406 p.) Collana Progress in astronautics and aeronautics; v. 133 Altri autori (Persone) KuhlA. L Disciplina 629.2 s 541.3/61 Soggetti **Explosions Detonation waves** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "Technical papers presented from the Twelfth International Colloquium" Note generali on Dynamics of Explosions and Reactive Systems, Ann Arbor, Michigan, July 1989, and subsequently revised for this volume." Includes bibliographical references and index. Nota di bibliografia ""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; Nota di contenuto ""Chapter I. Gaseous Detonations""; ""Chronology of Early Research on Detonation Wave""; ""Detonability of Hydrocarbon Fuels in Air""; ""Detonation of Cryogenic Gaseous Hydrogen-Oxygen Mixtures""; ""Detonation Characteristics of Gaseous Methane-Oxygen-Nitrogen Mixturesat Extremely Elevated Initial Pressures""; ""Correlation between Chemical Kinetics and Detonation Structure for Gaseous Explosive Systems""; ""Influence of Tetrafluoromethane on Hydrogen-Oxygen-Argon Detonations"" ""Chapter II. Detonation: Initiation and Transmission""""Initiation of Hydrogen-Air Detonations by Turbulent Fluorine-Air Jets": ""Detonation of Unconfined and Semiconfined Charges of Gaseous Mixtures""; ""Initiation of a Detonation Wave Due to Multistage Self-Ignition"": ""Critical Energy of Direct Detonation Initiation in Gaseous Mixtures"": ""Limit Criterion of Detonation in Circular Tubes"": ""Effects of a Negative Step of Fuel Concentration on Critical Diameter of Diffraction of a Detonation""; ""Oblique Detonation at Hypersonic Velocities""

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