Record Nr. UNINA9910781414703321 Hypersonic flow research [[electronic resource]]: a selection of **Titolo** technical papers based mainly on a symposium of the American Rocket Society held at Massachusetts Institute of Technology / / edited by Frederick R. Riddell Pubbl/distr/stampa New York, : Academic Press, 1962 **ISBN** 1-60086-481-3 1-60086-262-4 Descrizione fisica 1 online resource (768 p.) Collana Progress in astronautics and rocketry;; v. 7 Altri autori (Persone) RiddellFrederick R Disciplina 629.13232 Aerodynamics, Hypersonic Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Sponsored jointly by the Air Force Office of Scientific Research and the American Rocket Society. Nota di bibliografia Includes bibliographical references. Nota di contenuto ""Cover""; ""Title""; ""Copyright""; ""Hypersonics Committee""; ""Preface""; ""Contents""; ""The ARS a€? AFOSR International Hypersonics Conference: Summary and Comments""; ""A. Hypersonic Flow at Low Reynolds Number""; ""Introduction""; ""Density Behavior along the Stagnation Line of a Blunt Body in Hyperthermal Flow""; ""Second-Order Compressible Boundary Layer Theory with Application to Blunt Bodies in Hypersonic Flow""; ""Comment on above paper""; ""Rarefied Hypersonic Flow over a Sphere""; ""The Rayleigh Problem for a Dissociated Gas""; ""B. Chemical Kinetic Effects in Hypersonic Flow"" ""Introduction"""Chemical Kinetics: A General Introduction""; ""Chemical Kinetics of High Temperature Air""; ""Chemical Effects in External Hypersonic Flows""; ""Radiation at Hypersonic Speeds""; ""Radiation from the Nonequilibrium Shock Front""; ""C. Inviscid Hypersonic Flow""; ""Introduction"": ""Slender Wings at High Angles of Attack in Hypersonic Flows""; ""Newtonian Theory of Hypersonic Flow at Large Distances

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