Record Nr. UNINA9910781404103321 Rarefied gas dynamics [[electronic resource]]: space-related studies / Titolo / edited by E.P. Muntz, D.P. Weaver, D.H. Campbell Pubbl/distr/stampa Washington, D.C., : American Institute of Aeronautics and Astronautics, Inc., c1989 **ISBN** 1-60086-590-9 1-60086-371-X Descrizione fisica 1 online resource (583 p.) Collana Progress in astronautics and aeronautics; v. 116 Altri autori (Persone) MuntzE. Phillip <1934-> (Eric Phillip) WeaverD. P CampbellD. H (David H.) Disciplina 629.1 s 629.132/3 Soggetti Rarefied gas dynamics Space sciences Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "Technical papers selected from the sixteenth International Symposium on Rarefied Gas Dynamics, Pasadena, California, July 10-16, 1988, subsequently revised for this volume." Nota di bibliografia Includes bibliographical references and index. ""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; Nota di contenuto ""Chapter I. Rarefied Atmospheres""; ""Nonequilibrium Nature of Ion Distribution Functions in the High Latitude Auroral Ionosphere"; ""VEGA Spacecraft Aerodynamics in the Gas-Dust Rarefied Atmosphere of Halley's Comet""; ""Oscillations of a Tethered Satellite of Small Mass due to Aerodynamic Drag""; ""Chapter II. Plasmas""; ""Semiclassical Approach to Atomic and Molecular Interactions"": ""Monte Carlo Simulation of Electron Swarm in a Strong Magnetic Field"" ""Collisional Transport in Magnetoplasmas in the Presence of Differential Rotation""""Electron Oscillations, Landau, and Collisional Damping in a Partially Ionized Plasma""; ""Bifurcating Families of Periodic Traveling Waves in Rarefied Plasmas""; ""Chapter III. Atomic Oxygen Generation and Effects""; ""Laboratory Simulations of Energetic Atom Interactions Occurring in Low Earth Orbit""; ""High-Energy/Intensity CW Atomic Oxygen Beam Source"": ""Development of a

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