1. Record Nr. UNINA9910781418403321 Electric propulsion development [[electronic resource]]: a selection of **Titolo** technical papers based mainly on the American Rocket Society Electric Propulsion Conference held at Berkeley, California, March 14-16, 1962 // edited by Ernst Stuhlinger Pubbl/distr/stampa New York, : Academic Press, 1963 **ISBN** 1-60086-486-4 1-60086-267-5 Descrizione fisica 1 online resource (762 p.) Collana Progress in astronautics and rocketry;; v. 9 Altri autori (Persone) StuhlingerErnst <1913-2008.> Disciplina 629.4225 Soggetti Electric rocket engines Space vehicles - Electric propulsion systems 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""; ""Electric Propulsion Committee""; ""Editorial Committee""; ""Preface""; ""Contents""; ""A. Electrothermal Propulsion""; ""Objectives and Design of a 1-kw Arc-Jet Engine for Space Flight Testing""; ""Development Work on Plasma Arc Jet Engines""; ""Arc Jet Engine Performance a€? Experiment and Theory IV"": ""Arc Jet Design""; ""Materials Problems Related to the Electric Arc Jets""; ""A Chemical Arc-Jet Rocket Feasibility Study""; ""Chemical Nonequilibrium Effects in Thermal Arc Jet Propulsion"" ""Magnetically Diffused Radial Electric-Arc Air Heater Employing Water-Cooled Copper Electrodes"""B. Electrostatic Propulsion""; ""Field Emission Microscope Study of the Kinetics of Cesium Layers on a Tungsten Surface""; ""Experimental Evaluation of Porous Materials for Surface Ionization of Cesium and Potassium""; ""Experiments on Atom and Ion Emission From Porous Tungsten""; ""Ionization, Emission, and Collision Processes in the Cesium Ion Engine""; ""Negative Iodine Formation on Metal Hexaboride Surfaces""; ""Electron Bombardment Ion Source""; ""Electron Transfer Discharge Ion Source"" ""In-Flight Generation of Fuel for Cesium Ion Engines: The Cesium Hydride System"""Corrosivity and Contamination of Cesium in Ion

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