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## SPARK IGNITION CHARACTERISTICS OF A LO2LCH4 ENGINE AT ALTITUDE CONDITIONS



Spark Ignition Characteristics  
of a LO<sub>2</sub>/LCH<sub>4</sub> Engine at  
Altitude Conditions

NASA Technical Reports Server  
(NTRS), et al., Julie Kleinhenz

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The use of non-toxic propellants in future exploration vehicles would enable safer, more cost effective mission scenarios. One promising green alternative to existing hypergols is liquid methaneliquid oxygen. To demonstrate performance and prove feasibility of this propellant combination, a 100lbf LO<sub>2</sub>LCH<sub>4</sub> engine was developed and tested under the NASA Propulsion and Cryogenic Advanced Development (PCAD) project. Since high ignition energy is...

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