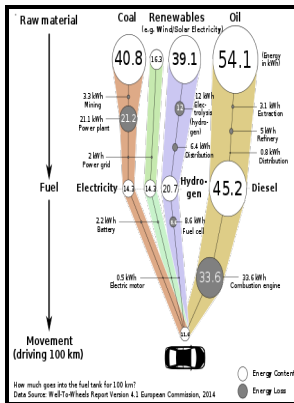


# Survey method of performance analysis for ramjet fuels (Project NOL-9-Re9d-17-1)

## U.S. Naval Ordnance Laboratory - Advanced Concept Ramjet Propulsion System Utilizing In Situ Positron Antimatter Derived from Ultra Intense Laser with Fundamental Performance Analysis



Description: -

-survey method of performance analysis for ramjet fuels (Project NOL-9-Re9d-17-1)

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### Determination of Flue Gas Flow: Performance of Calculation Methods for a Wide Range of Fuels in Comparison with Measurements

Maintaining combustion in the supersonic flow presents additional challenges, as the fuel must be injected, mixed, ignited, and burned within milliseconds.

### Table 1 from Performance Analysis Method for Dual Combustion Ramjet Engines

In Gambit the key thing for analysis is meshing. The parts described above can be seen in figure below. The optimal conditions for the antimatter annihilation should be considered.

### Design and Analysis on Scramjet Engine Inlet

Thus the design of a scramjet engine is as much about minimizing drag as maximizing thrust. INTRODUCTION n order to provide the definition of a scramjet engine, the definition of a ramjet engine is first necessary, as a scramjet engine is a direct descendant of a ramjet engine. Experiments are performed in a direct-connect ground test facility to measures the wall pressure and total pressure at the combustor exit.

### Determination of Flue Gas Flow: Performance of Calculation Methods for a Wide Range of Fuels in Comparison with Measurements

The inlet part will be discussed here, and the other data are directly taken from other reference papers. However, its lower volumetric energy density and higher flammability range also have an adverse effect in on-board storage system for aircraft propulsion applications.

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