Gas Injection Analysis for Wave Rotor Fueling
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Conclusions
1. Counter-rotating vortex pairs of a cross-flow jet have a strong role in mixing.
2. Cross-flow injection from a strut provides better mixing than from a wall.
3. Slender strut minimizes drag and blockage, but high-speed internal fuel flow creates injection challenges.
4. Injection from two sides allows better mixing than single-side injection.
5. Wall-injected fuel mixing is enhanced by an upstream strut.
6. Optimization of strut hole size needed to distribute fuel evenly.

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