

Mizukaki Laboratory

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Research Field: **Shock Wave Phenomena in Aerospace and Medical Science**

The shock wave does appear around high-speed transports, launch rockets, and space capsules including planet probing. At this laboratory, the research projects on unsteady shock waves oscillation around aero/space crafts, the advanced propulsion device using detonation, and explosion safety have been progressing.

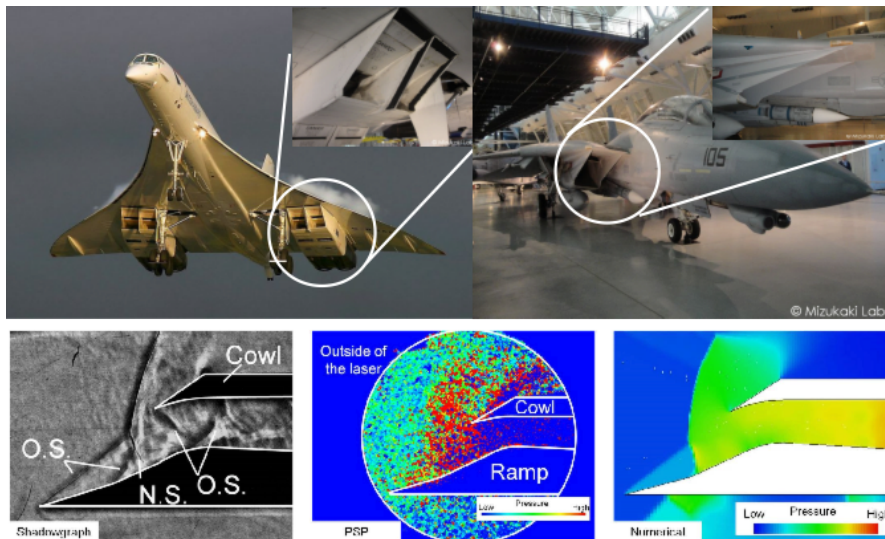


Fig. 1 Shock waves instability around supersonic inlet.

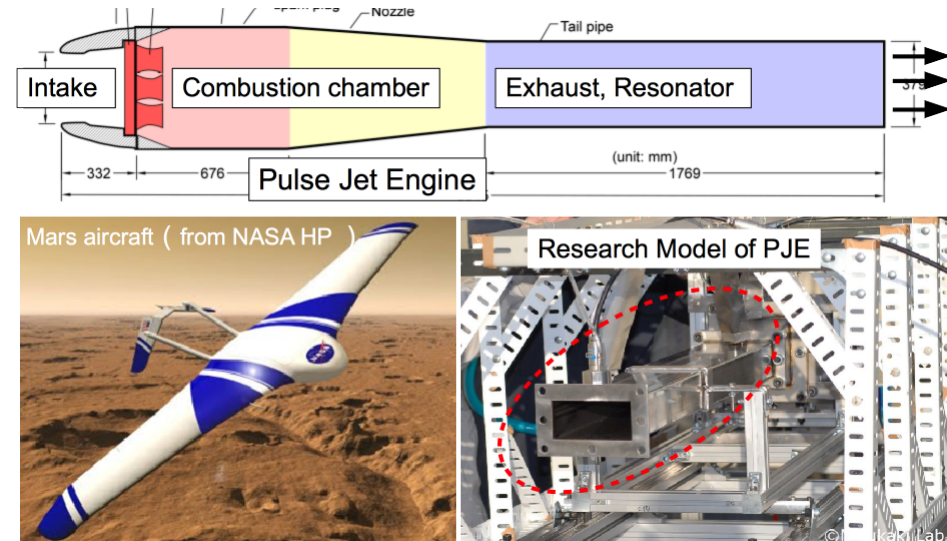


Fig. 2 Pulse detonation engine for Mars probing.