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OPTIMIZE DESIGN ON PROPELLANT MANAGEMENT OF LIQUID LAUNCH VEHICLE DURING  
COAST

**Abstract**

Abstract: Large liquid launch vehicle main engine have twice or more star-up ability adapt to different flight mission. Propellant management is a very important task to make sure the engine work well in mic-gravitation during coast. The article provide a method for propellant management design that could decrease the cost of propellant. After design and examination, it indicates that the optimize design on propellant management suffice the mission, decrease the cost of propellant and advance adaptability of launch vehicle. Key words: coast, propellant management, optimize design.