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# MODELING AND VALIDATION OF A PROPELLANT MIXER FOR CONTROLLER DESIGN



Modeling and Validation of a Propellant Mixer for Controller Design

NASA Technical Reports Server (NTRS), et al., Hanz Richter

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A mixing chamber used in rocket engine testing at the NASA Stennis Space Center is modelled by a system of two nonlinear ordinary differential equations. The mixer is used to condition the thermodynamic properties of cryogenic liquid propellant by controlled injection of the same substance in the gaseous phase. The three inputs of the mixer are the positions of the valves...

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