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MODEL-BASED SELF-TUNING MULTISCALE METHOD FOR COMBUSTION CONTROL



Model-Based Self-Tuning
Multiscale Method for
Combustion Control

NASA Technical Reports Server
(NTRS), et al., Dzu K. Le

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A multi-scale representation of the combustor dynamics was used to create a self-tuning, scalable controller to suppress multiple instability modes in a liquid-fueled aero engine-derived combustor operating at engine-like conditions. Its self-tuning features designed to handle the uncertainties in the combustor dynamics and time-delays are essential for control performance and robustness. The controller was implemented to modulate a high-frequency fuel valve...

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