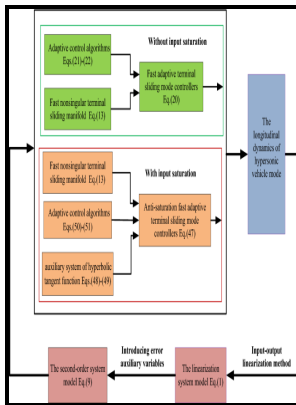


Hypersonic vehicle model and control law development using H and u synthesis

Langley Research Center - Understanding the Russian Military Today



Description: -

- Fort Worth and Denver City Railway Company.

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Robust control

Hypersonic flightHypersonic vehicle model and control law

development using H and u synthesis

-Hypersonic vehicle model and control law development using H and

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Notes: Includes bibliographical references: p. 35.

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Understanding the Russian Military Today

Chaoxu Mu, Qun Zong, and Bailing Tian are with the Department of Electrical Engineering and Automation, Tianjin University, Tianjin 300072, China e-mail: cxmu@tju. Autonomous Integrated Systems Research The Mission of the Autonomous Systems Integrated Research Branch is to conduct fundamental and applied research on integrated complex cyber-physical-human systems to develop, evaluate, and demonstrate efficient, resilient, and trustworthy autonomous systems and trustworthy collaboration between humans and autonomous machines; supported by rigorous physics-based modeling, explainable computational decision making, appropriate cognitive science techniques, and computational and physical experimentation. Control parameters selected can be found in Table.

Continuous Sliding Mode Controller with Disturbance Observer for Hypersonic Vehicles

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The Ministry of Defense committed 226 million USD toward further hypersonic research in 2020.

Extended state observer

Further research will focus on the ESO-based control strategy for general high-order system in the presence of actuator faults such as loss of effectiveness. While predominantly an air exercise, future iterations also enable increased integration with ground and maritime forces with the presence of the Marine Rotational Force—Darwin.

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