1. Record Nr.   UNINA9910739412403321

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   Titolo   Control Allocation for Spacecraft Under Actuator Faults / / by Qinglei
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   Pubbl/distr/stampa Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021

   ISBN   981-16-0439-8

   Edizione   [1st ed. 2021.]

   Descrizione fisica 1 online resource (xviii, 221 pages)

   Collana   Intelligent Technologies and Robotics Series

   Disciplina   629.4742

   Soggetti   Control engineering
                      Robotics
                      Automation
                      Aerospace engineering
                      Astronautics
                      Control, Robotics, Automation
                      Aerospace Technology and Astronautics

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Nota di contenuto Introduction -- Spacecraft Model and Control Allocation Formulation --
                      Null-space based Optimal Control Allocation for Spacecraft
                      Stabilization -- Robust finite-time control allocation under actuator
                      misalignment -- Finite-Time Fault-Tolerant Spacecraft Attitude Control
                      and Control allocation with Torque Saturation -- Fault Tolerant Control
                      Allocation of Spacecraft Using Fault Detection and Diagnosis --
                      Extended State Observer based Optimal Control Allocation -- Nonlinear
                      Proportional-Derivative Control Incorporating Closed-loop Control
                      Allocation -- Closed-Loop-Based Control Allocation for Spacecraft
                      Attitude Stabilization with Actuator Fault -- Conclusion.

   Sommario/riassunto This book provides a systematical and comprehensive description of
                      some facets of modeling, designing, analyzing and exploring the
                      control allocation and fault-tolerant control problems for over-actuated
                      spacecraft attitude control system under actuator failures, system
                      uncertainties and disturbances. The book intends to provide a unified
                      platform for understanding and applicability of the fault-tolerant
                      attitude control and control allocation for different purposes in

aerospace engineering and some related fields. And it is particularly suited for readers who are interested to learn solutions in spacecraft attitude control system design and related engineering applications. .