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Titolo	Advanced Attitude Control of Satellite : A Modeling Error Compensation Approach // by Bing Xiao, Zhaoyue Chen, Jingwen Xu, Lu Cao
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part I Foundation -- Overview -- Preliminaries -- Part II Modeling Error Robust Compensation Attitude Control -- Observer-free Output Feedback Attitude Control -- Velocity-free Attitude Control with Actuator Constraint -- Velocity-free Attitude Fault-tolerant Control -- Part III Modeling Error Adaptive Compensation Attitude Control -- Adaptive Attitude Stabilization Control -- Fixed-time Optimal Attitude Control -- Faster Fixed-time Attitude Stabilization Control -- Part IV Observer-based Modeling Error Compensation Attitude Control -- Extended-state Observer-based Attitude Control -- Disturbance Observer-based Attitude Control -- Unknow Input Observer-based Attitude Control -- Conclusion.
Sommario/riassunto	This book focuses on the high-accuracy attitude control system design and approaches for satellite with modeling error including system uncertainties, actuator faults, and disturbances. It presents a systematically and almost self-contained description of the many facets of envisaging, designing, implementing, or experimentally exploring modeling error compensation-based attitude control of satellites. The

advanced treatment of practical issues in satellite attitude compensation control is one of the major features of the book, which is particularly suited for readers who are interested to learn the latest solutions in attitude control system design of satellites. The book intends to provide a unified platform for understanding and applicability of the modeling error compensation-based attitude control for different purposes in aerospace engineering and some related fields. It can benefit researchers, engineers, and graduate students in the fields of attitude control of satellites and other unmanned systems, aerospace engineering, etc.

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