



# **Satellite Formation Flying: Relative Dynamics, Formation Design, Fuel Optimal Maneuvers and Formation Maintenance (Intelligent Systems, Control and Automation: Science and Engineering)**

*Danwei Wang, Baolin Wu, Eng Kee Poh*

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This book systematically describes the concepts and principles for multi-satellite relative motion, passive and near passive formation designs, trajectory planning and control for fuel optimal formation maneuvers, and formation flying maintenance control design. As such, it provides a sound foundation for researchers and engineers in this field to develop further theories and pursue their implementations.

Though satellite formation flying is widely considered to be a major advance in space technology, there are few systematic treatments of the topic in the literature. Addressing that gap, the book offers a valuable resource for academics, researchers, postgraduate students and practitioners in the field of satellite science and engineering.

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