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	Autore	Myres, John
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	Autore	Dong Wei
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Chapter 1. Introduction -- Chapter 2. Mathematical Models and Preliminaries -- Chapter 3. Varying-Gain Proportional Navigation Guidance for Precise Impact Time Control -- Chapter 4. Guidance Law Design with Fixed-Time Convergent Error Dynamics -- Chapter 5. Three-Dimensional Distributed Cooperative Guidance with Guaranteed Convergence -- Chapter 6. Spatial-Temporal Cooperative Guidance Based on Command Decoupling Strategy -- Chapter 7. Three-Dimensional Vector Spatial-Temporal Cooperative Guidance Without Active Speed Control -- Chapter 8. Multiple-Stage Spatial-Temporal Cooperative Guidance Without Time-to-Go Estimation -- Chapter 9. Unified Method for Field-of-View-Limited Cooperative Guidance -- Chapter 10. Conclusion and Prospect.

The spatial-temporal cooperative guidance problem for multiple flight vehicles has garnered significant attention in recent years due to its potential benefits in both military and civil fields. This book provides a concise but holistic introduction to this practical problem and presents a summative collection of the latest solutions to the concerned challenges, thereby providing some theoretical support for enhancing the synergism and applicability of cooperative guidance for multiple flight vehicles. This book consists of nine chapters. In Chapter 1, recent works on cooperative guidance are systematically recalled. Chapter 2 introduces the common formulation and unique challenges of the cooperative guidance problem from a practical viewpoint. In Chapter 3, a varying-gain proportional navigation guidance law with accurate time-to-go prediction is developed to realize precise control of the impact time. In Chapter 4, in response to the inherent finite-time property of the cooperative guidance problem, a fixed-time convergent error dynamic is proposed to design a 3D distributed cooperative guidance law with enhanced convergence. In Chapter 5, a command-decoupled design strategy is proposed to address the challenging spatial-temporal cooperative guidance problem through the derivation and combination of the coplanar cooperative guidance and planar pursuit guidance commands. In Chapter 6, an integrated design strategy based on rotational operations on spatial vectors is proposed to simultaneously satisfy the impact angle and time constraints. In Chapter 7, a multiple-stage cooperative guidance strategy is developed to satisfy the spatial-temporal constraints without relying on time-to-go information. In Chapter 8, a unified command augmentation method is proposed to prevent the seeker's FOV from exceeding the boundary throughout the cooperative guidance. Finally, Chapter 9 concludes this book and offers an instructive opinion on the future directions of the cooperative guidance problem in both academic and engineering investigations. Therefore, this book can not only serve as a reference for researchers who are interested in this field with systematic and inspirational perspectives, but also be a useful handbook for engineers engaged in cooperative guidance and control of multiple flight vehicles.