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The book contains 15 selected, revised, and thoroughly edited papers addressing various issues of flight dynamics, guidance, navigation, and control, written by eminent international experts. The papers include critical analyses of previous studies and of novel concepts, new theoretical and experimental results and findings as well as numerous references to archival publications worldwide. The book is organized in 4 chapters: (1) Navigation and Orbit Determination; (2) Guidance and Control; (3) Optimization; and (4) Simulations and Operations. The volume was prepared as a reference for research scientists and practicing engineers from academy and industry, in the field of flight dynamics, guidance, navigation, and control.

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