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The book contains 46 selected, revised, and thoroughly edited papers addressing various issues of flight dynamics, guidance, navigation, control, fault detection, and avionics 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 7 chapters: (1) Handling Qualities; (2) Navigation and Estimation; (3) Guidance and Control; (4) Fault Detection and Control; (5) Avionics; (6) Launchers Trajectory Optimization; and (7) Flexible Aircraft Control. 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, control, and avionics.

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