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The book contains 43 selected, revised and thoroughly edited papers addressing various issues of flight physics written by world-known experts. The papers include critical analyses of previous studies and controversial aspects of novel flight concepts, new theoretical and experimental results and findings as well as numerous references to archival publications worldwide. The book is organized in 6 chapters: (1) Aerodynamics; (2) Shock Interaction; (3) High Enthalpy Flows; (4) Heat Transfer; (5) Aeroacoustics; and (6) Flow Control. The volume was prepared as a reference for research scientists and practicing engineers in the field of flight physics.

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