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Note generali	"Papers presented at the 18th DGLR/STAB-Symposium held in Stuttgart, Germany, in November, 6-7, 2012 and organized by the Institute of Aerodynamics and Gas Dynamics of Stuttgart University"-- Preface.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Airplane Aerodynamics -- Optimization -- Laminar Flow Control and Transition -- Rotorcraft Aerodynamics -- Convective Flows -- Aerodynamics and Aeroacoustics of Ground Vehicles -- Aeroelasticity and Structural Dynamics -- Numerical Simulation -- Experimental Simulation and Test Techniques -- Aeroacoustics -- Biofluid Mechanics.

This book presents contributions to the 18th biannual symposium of the German Aerospace Aerodynamics Association (STAB). The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics, mainly for (but not limited to) aerospace applications, and cover both nationally and EC-funded projects. By addressing a number of essential research subjects, together with their related physical and mathematics fundamentals, the book provides readers with a comprehensive overview of the current research work in the field, as well as its main challenges and new directions. Current work on e.g. high aspect-ratio and low aspect-ratio wings, bluff bodies, laminar flow control and transition, active flow control, hypersonic flows, aeroelasticity, aeroacoustics and biofluid mechanics is exhaustively discussed here. .
