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Titolo	Aerodynamics of Tandem Wing Aircraft : From Dinosaurs to UAVs and Supersonic Planes // by Illia Kryvokhatko
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Descrizione fisica	1 online resource (183 pages)
Disciplina	629.1323 629.1334
Soggetti	Aerospace engineering Astronautics Engineering design Biomedical engineering Biomechanics Statics Building materials Vehicles Aerospace Technology and Astronautics Engineering Design Biomechanical Analysis and Modeling Mechanical Statics and Structures Structural Materials Vehicle Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Historical Review -- Chapter 2. Determination of Tandem Wing Aircraft Aerodynamic Characteristics -- Chapter 3. Effect of Geometric Parameters on Aerodynamic Characteristics -- Chapter 4. Recommendations Regarding Aerodynamic Design of Tandem Wing Aircraft.
Sommario/riassunto	This book contains extensive data about tandem wing aircraft. It

includes a review of modern flying vehicles with four fixed wings, a review of analytical, numerical and experimental methods; results of the studies about aerodynamics; dependencies between geometrical parameters and aerodynamic characteristics, practical recommendations in development and optimizing of tandem wing aircraft to provide high lift-to-drag ratio, stability, and controllability. This is an ideal book for graduate students, researchers, and engineers working in fields of aerodynamics and conceptual design of the aircraft especially UAVs, ground-effect vehicles, and convertiplanes. Reviews a wide range of aircraft with four wings, providing insights and best practices; Explains how to choose layout and geometrical parameters of tandem wing aircraft; Maximizes reader understanding of many important facets of aerodynamics using relatively simple terms.
