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Autore	Kundu Ajoy Kumar <1932->
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Nota di contenuto	Cover; Half-title; Series-title; Title; Copyright; Contents; Symbols and Abbreviations; Preface; Road Map of the Book; 1 Introduction; 2 Methodology to Aircraft Design, Market Survey, and Airworthiness; 3 Aerodynamic Considerations; 4 Aircraft Classification, Statistics, and Choices for Configuration; 5 Aircraft Load; 6 Configuring Aircraft; 7 Undercarriage; 8 Aircraft Weight and Center of Gravity Estimation; 9 Aircraft Drag; 10 Aircraft Power Plant and Integration; 11 Aircraft Sizing, Engine Matching, and Variant Derivative; 12 Stability Considerations Affecting Aircraft Configuration 13 Aircraft Performance 14 Computational Fluid Dynamics; 15 Miscellaneous Design Considerations; 16 Aircraft Cost Considerations; 17 Aircraft Manufacturing Considerations; Appendix A Conversion; Appendix B International Standard Atmosphere (Table below from hydrostatic equations); Appendix C Aerofoils; Appendix D Case Studies;

Appendix E Tire Data (Courtesy of Goodyear Tire Co.); References; Index

Sommario/riassunto

Aircraft Design explores fixed winged aircraft design at the conceptual phase of a project. Designing an aircraft is a complex multifaceted process embracing many technical challenges in a multidisciplinary environment. By definition, the topic requires intelligent use of aerodynamic knowledge to configure aircraft geometry suited specifically to the customer's demands. It involves estimating aircraft weight and drag and computing the available thrust from the engine. The methodology shown here includes formal sizing of the aircraft, engine matching, and substantiating performance to comply with the customer's demands and government regulatory standards. Associated topics include safety issues, environmental issues, material choice, structural layout, understanding flight deck, avionics, and systems (for both civilian and military aircraft). Cost estimation and manufacturing considerations are also discussed. The chapters are arranged to optimize understanding of industrial approaches to aircraft design methodology. Example exercises from the author's industrial experience dealing with a typical aircraft design are included.

2. Record Nr.	UNINA9910887396903321
Autore	Sindacato nazionale fascista tecnici agricoli
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