

1.	Record Nr.	UNINA990007939790403321
	Autore	Berchtold, Alfred <1925- >
	Titolo	Jacob Burckhardt esploratore della storia / Alfred Berchtold
	Pubbl/distr/stampa	Locarno, : Dadò, 2003
	ISBN	88-8281-112-3
	Descrizione fisica	182 p. ; 21 cm
	Collana	I cristalli ; 5
	Disciplina	907.201
	Locazione	FLFBC
	Collocazione	907.202 BUR 5
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910132162503321
	Autore	Sobester Andras
	Titolo	Aircraft aerodynamic design : geometry and optimization / / Andras Sobester, Alexander Forrester
	Pubbl/distr/stampa	Chichester, England : , : Wiley, , 2015 ©2015
	ISBN	1-5231-2340-0 1-118-53473-5 1-118-53474-3 1-118-53471-9
	Descrizione fisica	1 online resource (246 p.)
	Collana	Aerospace Series THEi Wiley ebooks
	Classificazione	TEC002000
	Disciplina	629.134/1
	Soggetti	Airframes Aerodynamics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa

Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	<p>"Optimal aircraft design is impossible without a parametric representation of the geometry of the airframe. We need a mathematical model equipped with a set of controls, or design variables, which generates different candidate airframe shapes in response to changes in the values of these variables. This model's objectives are to be flexible and concise, and capable of yielding a wide range of shapes with a minimum number of design variables. Moreover, the process of converting these variables into aircraft geometries must be robust. Alas, flexibility, conciseness and robustness can seldom be achieved simultaneously. Aircraft Aerodynamic Design: Geometry and Optimization addresses this problem by navigating the subtle trade-offs between the competing objectives of geometry parameterization. It begins with the fundamentals of geometry-centred aircraft design, followed by a review of the building blocks of computational geometries, the curve and surface formulations at the heart of aircraft geometry. The authors then cover a range of legacy formulations in the build-up towards a discussion of the most flexible shape models used in aerodynamic design (with a focus on lift generating surfaces). The book takes a practical approach and includes MATLAB(r), Python and Rhinoceros(r) code, as well as 'real-life' example case studies. Key features:</p> <ul style="list-style-type: none"> Covers effective geometry parameterization within the context of design optimization Demonstrates how geometry parameterization is an important element of modern aircraft design Includes code and case studies which enable the reader to apply each theoretical concept either as an aid to understanding or as a building block of their own geometry model Accompanied by a website hosting codes <p>Aircraft Aerodynamic Design: Geometry and Optimization is a practical guide for researchers and practitioners in the aerospace industry, and a reference for graduate and undergraduate students in aircraft design and multidisciplinary design optimization"--</p>