	UNINA9910132162503321
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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
	Materiale a stampa
Formato	
Livello bibliografico	Monografia

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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: 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 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"--