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Autore	McBain G. D (Geordie G.)
Titolo	Theory of lift [[electronic resource]] : introductory computational aerodynamics in MATLAB/OCTAVE // G.D. McBain
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Descrizione fisica	1 online resource (343 p.)
Collana	Aerospace series
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Disciplina	629.132/33028553
Soggetti	Lift (Aerodynamics) - Mathematical models Aerodynamics - Data processing
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Plane ideal aerodynamics -- pt. 2. Three-dimensional ideal aerodynamics -- pt. 3. Nonideal flow in aerodynamics.
Sommario/riassunto	"Accessible introduction to aerodynamics using a unique computational approach based on widely available MATLAB software tools. Based on the author's years of experience teaching aerodynamics to students, he has developed an approach combining the use of widely available MATLAB commercial code (also compatible with Octave GNU open source code) with clear narrative explanations of the concepts that simplifies the understanding of aerodynamics without sacrificing the mathematical underpinnings or leaving the reader overwhelmed with complex formulas. The ability of the reader to download and run the code examples makes this an ideal self-learning tool, as well as a valuable course text. The choice of compatible MATLAB/Octave code ensures anyone can run the examples - either using open-source GNU Octave software as many consultancies and small firms do, or using the MATLAB commercial application (including the student edition) which is used widely in industry and is almost ubiquitous in academia. The code has been carefully compiled and checked for compatibility with both

applications"--
