



An introduction to flapping wing aerodynamics /

Shyy, W. (Wei)

Cambridge University Press, 2013

Electronic books

Monografía

This is an ideal book for graduate students and researchers interested in the aerodynamics, structural dynamics and flight dynamics of small birds, bats and insects, as well as of micro air vehicles (MAVs), which present some of the richest problems intersecting science and engineering. The agility and spectacular flight performance of natural flyers, thanks to their flexible, deformable wing structures, as well as to outstanding wing, tail and body coordination, is particularly significant. To design and build MAVs with performance comparable to natural flyers, it is essential that natural flyers' combined flexible structural dynamics and aerodynamics are adequately understood. The primary focus of this book is to address the recent developments in flapping wing aerodynamics. This book extends the work presented in Aerodynamics of Low Reynolds Number Flyers (Shyy et al. 2008)

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Título: An introduction to flapping wing aerodynamics Wei Shyy [and 3 others]

Editorial: Cambridge New York Cambridge University Press 2013

Descripción física: 1 online resource

Mención de serie: Cambridge aerospace series

Bibliografía: Includes bibliographical references and index

Contenido: Preface of the first edition (Aerodynamics of low Reynolds number flyers) -- Introduction -- Rigid fixed-wing aerodynamics -- Rigid flapping-wing aerodynamics -- Flexible wing aerodynamics -- Future perspective

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ISBN: 9781107056213 electronic bk.) 1107056217 electronic bk.) 9781139583916 electronic bk.) 1139583913 electronic bk.) 9781523115396 electronic bk.) 1523115394 electronic bk.) 9781299706668 1299706665 9781107059771 1107059771 9781107037267 1107037263 9781107640351 1107640350 9781107058538 e-book) 1107058538

Materia: Aerodynamics Airplanes- Wings Micro air vehicles Wings (Anatomy) Animal flight
TRANSPORTATION- Aviation- General. Aerodynamics. Airplanes- Wings. Animal flight. Micro air vehicles.
Wings (Anatomy)

Autores: Shyy, W. (Wei)

Enlace a formato físico adicional: Print version Introduction to flapping wing aerodynamics. Cambridge :
Cambridge University Press, 2013 9781139583916 (DLC) 2012047764 (OCoLC)830202328

Punto acceso adicional serie-Título: Cambridge aerospace series

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