



G.C.H.E. de Croon
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C. De Wagter

The DeIFly

Design, Aerodynamics,
and Artificial Intelligence
of a Flapping Wing Robot

Delfly Aerodynamics Artificial Intelligence Flapping

Emilie Sanchez



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The DelFly G.C.H.E. de Croon, M. Perçin, B.D.W. Remes, R. Ruijsink, C. De Wagter, 2015-11-26 This book introduces the topics most relevant to autonomously flying flapping wing robots flapping wing design aerodynamics and artificial intelligence Readers can explore these topics in the context of the Delfly a flapping wing robot designed at Delft University in The Netherlands How are tiny fruit flies able to lift their weight avoid obstacles and predators and find food or shelter The first step in emulating this is the creation of a micro flapping wing robot that flies by itself The challenges are considerable the design and aerodynamics of flapping wings are still active areas of scientific research whilst artificial intelligence is subject to extreme limitations deriving from the few sensors and minimal processing onboard This book conveys the essential insights that lie behind success such as the DelFly Micro and the DelFly Explorer The DelFly Micro with its 3.07 grams and 10 cm wing span is still the smallest flapping wing MAV in the world carrying a camera whilst the DelFly Explorer is the world's first flapping wing MAV that is able to fly completely autonomously in unknown environments The DelFly project started in 2005 and ever since has served as inspiration not only to many scientific flapping wing studies but also the design of flapping wing toys The combination of introductions to relevant fields practical insights and scientific experiments from the DelFly project make this book a must read for all flapping wing enthusiasts be they students researchers or engineers

Living Machines Tony J. Prescott, Nathan Lepora, Paul F. M. J. Verschure, 2018 Contemporary research in the field of robotics attempts to harness the versatility and sustainability of living organisms with the hope of rendering a renewable adaptable and robust class of technology that can facilitate self repairing social and moral even conscious machines This landmark volume surveys this flourishing area of research

Intelligent Robotics and Applications YongAn Huang, Hao Wu, Honghai Liu, Zhouping Yin, 2017-08-04 The three volume set LNAI 10462 LNAI 10463 and LNAI 10464 constitutes the refereed proceedings of the 10th International Conference on Intelligent Robotics and Applications ICIRA 2017 held in Wuhan China in August 2017 The 235 papers presented in the three volumes were carefully reviewed and selected from 310 submissions The papers in this third volume of the set are organized in topical sections on sensors and actuators mobile robotics and path planning virtual reality and artificial intelligence aerial and space robotics mechatronics and intelligent manufacturing

Planetary Rovers Alex Ellery, 2015-12-30 This will be the only book on planetary rover development covering all aspects relevant to the design of systems

Current Advances in Soft Robotics: Best Papers From RoboSoft 2018 Helmut Hauser, Thrishantha Nanayakkara, S. M. Hadi Sadati, Fumiya Iida, Perla Maiolino, 2020-06-04

Flapping Wing Micro Air Vehicles Shafiq Bin Suhaimi, Solehuddin Shuib, Hamid Yusoff, 2025-05-13 This book highlights the design and performance of bio inspired approach to a flying drone design The flying drone design in this book is a micro air vehicle MAV where the wingspan of the drone is less than 15cm It focuses on the wing design of the MAV which is a flapping wing that is based on bat wings In the first part this book delves into the past work that has been done in

this area and gives a bigger picture of the design approach as well as the blind spots that are in the field In the second part the book presents a novel design process with experiments that have been done to measure the performance of the design

Flying Insects and Robots Dario Floreano, Jean-Christophe Zufferey, Mandyam V. Srinivasan, Charlie Ellington, 2009-10-23 Flying insects are intelligent micromachines capable of exquisite maneuvers in unpredictable environments Understanding these systems advances our knowledge of flight control sensor suites and unsteady aerodynamics which is of crucial interest to engineers developing intelligent flying robots or micro air vehicles MAVs The insights we gain when synthesizing bioinspired systems can in turn benefit the fields of neurophysiology ethology and zoology by providing real life tests of the proposed models This book was written by biologists and engineers leading the research in this crossdisciplinary field It examines all aspects of the mechanics technology and intelligence of insects and insectoids After introductory level overviews of flight control in insects dedicated chapters focus on the development of autonomous flying systems using biological principles to sense their surroundings and autonomously navigate A significant part of the book is dedicated to the mechanics and control of flapping wings both in insects and artificial systems Finally hybrid locomotion energy harvesting and manufacturing of small flying robots are covered A particular feature of the book is the depth on realization topics such as control engineering electronics mechanics optics robotics and manufacturing This book will be of interest to academic and industrial researchers engaged with theory and engineering in the domains of aerial robotics artificial intelligence and entomology

Aerodynamic Analysis of Natural Flapping Flight Using a Lift Model Based on Spanwise Flow Lionel D. Alford, 2010 This study successfully described the mechanics of flapping hovering flight within the framework of conventional aerodynamics Additionally the theory proposed and supported by this research provides an entirely new way of looking at animal flapping flight The mechanisms of biological flight are not well understood and researchers have not been able to describe them using conventional aerodynamic forces This study proposed that natural flapping flight can be broken down into a simplest model that this model can then be used to develop a mathematical representation of flapping hovering flight and finally that the model can be successfully refined and compared to biological flapping data This paper proposed a unique theory that the lift of a flapping animal is primarily the result of velocity across the cambered span of the wing A force analysis was developed using centripetal acceleration to define an acceleration profile that would lead to a spanwise velocity profile The force produced by the spanwise velocity profile was determined using a computational fluid dynamics analysis of flow on the simplified wing model The overall forces on the model were found to produce more than twice the lift required for hovering flight In addition spanwise lift was shown to generate induced drag on the wing Induced drag increased both the model wing s lift and drag The model allowed the development of a mathematical representation that could be refined to account for insect hovering characteristics and that could predict expected physical attributes of the fluid flow This computational representation resulted in a profile of lift and drag production that

corresponds to known force profiles for insect flight The model of flapping flight was shown to produce results similar to biological observation and experiment and these results can potentially be applied to the study of other flapping animals This work provides a foundation on which to base further exploration and hypotheses regarding flapping flight

Optimization of the Aerodynamics of Small-scale Flapping Aircraft in Hover, 2006 **Optimization of Aerodynamic Performance for a Hovering Model Flapping Wing Using CFD** Hao Zhang, Hong Kong Polytechnic University. Faculty of Engineering, Hong Kong Polytechnic University. Dept. of Mechanical Engineering, 2014

Implications of Passive and Active Pitching on Dragonfly's Flapping Aerodynamics Di Liu, 2022 *Unsteady Aerodynamics of a Flapping Airfoil* Sunetra Sarkar, Kartik Venkatraman, 2010-03 This book analyzes the unsteady viscous flow field of an oscillating airfoil This has ramifications on understanding the flapping flight of natural biological systems like fishes and invertebrates It also helps towards a better aerodynamic design and understanding of flapping types MAVs The flow field simulation is performed with a grid free Lagrangian particle based solver using vorticity particles An examination of the unsteady aerodynamic load and the qualitative wake structures are done for airfoils undergoing pitch and plunge oscillations The propulsive behavior is investigated at medium to high frequency ranges for different relevant parameters These are amplitude of oscillation mean angle of attack and rotational axis location Asymmetric sinusoidal motions are also examined Dynamic stall is another important aspect of unsteady aerodynamics that airfoils and wings experience during their time dependent movement at large angles of attack Insects use this phenomenon to increase the aerodynamic loads during their large angle flapping maneuvers This aspect is also studied in this book [The Aerodynamics of Flapping Birdflight](#) Clarence D. Cone, 1968

Biomimetic Insect Flapping Aerodynamics and Controls for Micro Air Vehicles Pranay Seshadri, 2011 **A Lagrangian Approach to Capture the Unsteady Aerodynamics of Insect-Like Flapping Flight**, 2010 A Lagrangian viscous vortex technique is used in the present study to simulate the unsteady flow field of flapping flight The method is grid free and computations are done only at the regions of non zero vorticity As a result this method is quite suitable for simulating the unsteady vertical flow field past flapping wings and airfoils it provides an accurate and fast flow visualization The main strength of this tool is its grid free nature as the resolution of the grid is a crucial parameter in resolving the unsteady flow field accurately It is also relatively easy to implement a grid free particle based technique for a moving boundaries or complex geometries In this algorithm field property vorticity is carried by discrete particles which convects with the Biot Savart velocity and diffuses with random walk

Nature's Smart Engine Fritz-Olaf Lehmann, 2011 The flight of insects is a high potential topic for bio inspired micro flows because of their optimized energy consumption and the economical and innovative construction of the flight apparatus This book will focus on two closely related aspects of flight in flapping insect wings Unsteady aerodynamics and energetics The most recent discoveries on unsteady aerodynamic mechanisms for lift enhancement vortex theory rotational flows energy recycling and wake wing interactions are covered as

well as the significance of those mechanisms for flight power requirements and efficiency Comparisons will be made between experimental data coming from physical robotic wings and numerical models computational fluid dynamics The energetics section will dissect the power requirements for flight and show how flight force production is constrained by the maximum mechanical power output of the flight musculature The over arching systems level perspectives and focus on major principles in this book will be a welcome change from the extensive mathematical descriptions that are typical of other texts and monographs on aerodynamics The book will thus appeal to both biologists and engineers alike

Numerical Simulations of Flapping Foil and Wing Aerodynamics Fank Martijn Bos,2010 **The Effects of Flexibility on the Aerodynamics of Moth Wings: Towards the Development of Flapping-wing Technology** Michael J. C. Smith,1995 *Numerical Simulation of the Unsteady Aerodynamics of Flapping Airfoils* John Young,2005 Unsteady Aerodynamics of Stationary/flapping Airfoil Combination in Tandem I. H. Tuncer,1997

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