

The background of the cover is a monochromatic orange-toned photograph of a robotic wing mechanism. The mechanism features a central vertical shaft with a motor at the top, from which several thin, dark wires or tendons extend downwards. These tendons are connected to a horizontal structure that represents the wing. The wing itself is composed of several rectangular segments, some of which are slightly offset, giving it a segmented, insect-like appearance. The entire scene is set against a dark, textured background, possibly a laboratory setting.

G.C.H.E. de Croon  
M. Perçin  
B.D.W. Remes  
R. Ruijsink  
C. De Wagter

# The DeFly

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

# Delfly Aerodynamics Artificial Intelligence Flapping

**Daniel F McAuley**



### **Delfly Aerodynamics Artificial Intelligence Flapping:**

The DelFly G.C.H.E. de Croon, M. Percin, 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, 2018-04-13 Contemporary research in science and engineering is seeking to harness the versatility and sustainability of living organisms By exploiting natural principles researchers hope to create new kinds of technology that are self repairing adaptable and robust and to invent a new class of machines that are perceptive social emotional perhaps even conscious This is the realm of the living machine Living machines can be divided into two types biomimetic systems that harness the principles discovered in nature and embody them in new artifacts and biohybrid systems in which biological entities are coupled with synthetic ones Living Machines A handbook of research in biomimetic and biohybrid systems surveys this flourishing area of research capturing the current state of play and pointing to the opportunities ahead Promising areas in biomimetics include self organization biologically inspired active materials self assembly and self repair learning memory control architectures and self regulation locomotion in air on land or in water perception cognition control and communication Drawing on these advances the potential of biomimetics is revealed in devices that can harvest energy grow or reproduce and in animal like robots that range from synthetic slime molds to artificial fish to humanoids Biohybrid systems is a relatively new field with exciting and largely unknown potential but one that is likely to shape the future of humanity This book surveys progress towards new kinds of biohybrid such as robots that merge electronic neurons with biological tissue micro scale machines made from living cells prosthetic limbs with a sense of touch and brain machine interfaces that allow robotic devices to be controlled by human thought The handbook concludes by exploring some of the impacts that living machine technologies could have on both

society and the individual exploring questions about how we will see and understand ourselves in a world in which the line between the natural and the artificial is increasingly blurred With contributions from leading researchers from science engineering and the humanities this handbook will be of broad interest to undergraduate and postgraduate students Researchers in the areas of computational modeling and engineering including artificial intelligence machine learning artificial life biorobotics neurorobotics and human machine interfaces will find Living Machines an invaluable resource

**Digital Culture & Society (DCS)** Ramón Reichert, Mathias Fuchs, Pablo Abend, Annika Richterich, Karin Wenz, 2018-08-07 Digital Culture Society is a refereed international journal fostering discussion about the ways in which digital technologies platforms and applications reconfigure daily lives and practices It offers a forum for inquiries into digital media theory methodologies and socio technological developments This issue shows The meaning of AI has undergone drastic changes during the last 60 years of AI discourse s What we talk about when saying AI is not what it meant in 1958 when John McCarthy Marvin Minsky and their colleagues started using the term Biological information processing is now firmly embedded in commercial applications like the intelligent personal Google Assistant Facebook s facial recognition algorithm Deep Face Amazon s device Alexa or Apple s software feature Siri to mention just a few

**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

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**Bioinspired Structures and Design** Wole Soboyejo, Leo Daniel, 2020-09-17 Master simple to advanced biomaterials and structures with this essential text Featuring topics ranging from bionanoengineered materials to bio inspired structures for spacecraft and bio inspired robots and covering issues such as motility sensing control and morphology this highly illustrated text walks the reader through key scientific and practical engineering principles discussing properties applications and design Presenting case studies for the design of materials and structures at the nano micro meso and macro scales and written by some of the leading experts on the subject this is the ideal introduction to this emerging field for students in engineering and science as well as researchers

**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

Optimization of the Aerodynamics of Small-scale Flapping Aircraft in Hover, 2006

Implications of Passive and Active Pitching on Dragonfly's Flapping Aerodynamics Di Liu, 2022

**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

**The Aerodynamics of Flapping Birdflight** Clarence D. Cone, 1968

*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

**Biomimetic Insect Flapping Aerodynamics and Controls for Micro Air Vehicles** Pranay Seshadri, 2011 *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

**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

**The Effects of Flexibility on the Aerodynamics of Moth Wings: Towards the Development of Flapping-wing Technology** Michael J. C. Smith, 1995 *Integrated Computational and Experimental Studies of Flapping-wing Micro Air Vehicle Aerodynamics*, 2007 This paper describes

recent research on flapping wing micro air vehicles based on insect like aerodynamics A combined analytical experimental and CFD approach is being adopted to understand and design suitable wing aerodynamics and kinematics The CFD has used the Fluent 6 commercial code together with the grid generating software Gambit 2 the experiments have been conducted in air and water using various rigs and techniques Part of our work has used 2D CFD and linear experiments in a water tunnel This has revealed details on vortex stability the role of Kelvin Helmholtz instability and Reynolds number effects 3D CFD on rotating wings and equivalent experiments in a water tank have then been used to investigate the role of spanwise flow in the leading edge vortex

## **Delfly Aerodynamics Artificial Intelligence Flapping** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Delfly Aerodynamics Artificial Intelligence Flapping**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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web mary poppins it did now stand over there mary poppins pulls out a measuring tape holds it against michael and reads just as i thought a noisy mischievous troublesome little boy michael you re making that up without a word mary poppins



holds the tape for michael to read a noisy mischievous trouble stunned

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web script jane banks side 1 mary poppins a very tidy nursery i must say tidier than i was expecting who s responsible for that jane mrs bri michael me i am like to keep things neat mary poppins do you indeed well i look forward to making use of that if there s one thing i appreciate it s a child whose word i can depend on

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web based on p l travers beloved book series of the same name mary poppins became an immediate hit when it premiered as

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