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The DeIFly

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

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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

Machine Learning in Aerodynamics. Clustering and Autoencoders for CFD Applications Ettore Saetta, 2024

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

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

Implications of Passive and Active Pitching on Dragonfly's Flapping Aerodynamics Di Liu,2022 *Biomimetic Insect Flapping Aerodynamics and Controls for Micro Air Vehicles*
Pranay Seshadri,2011

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