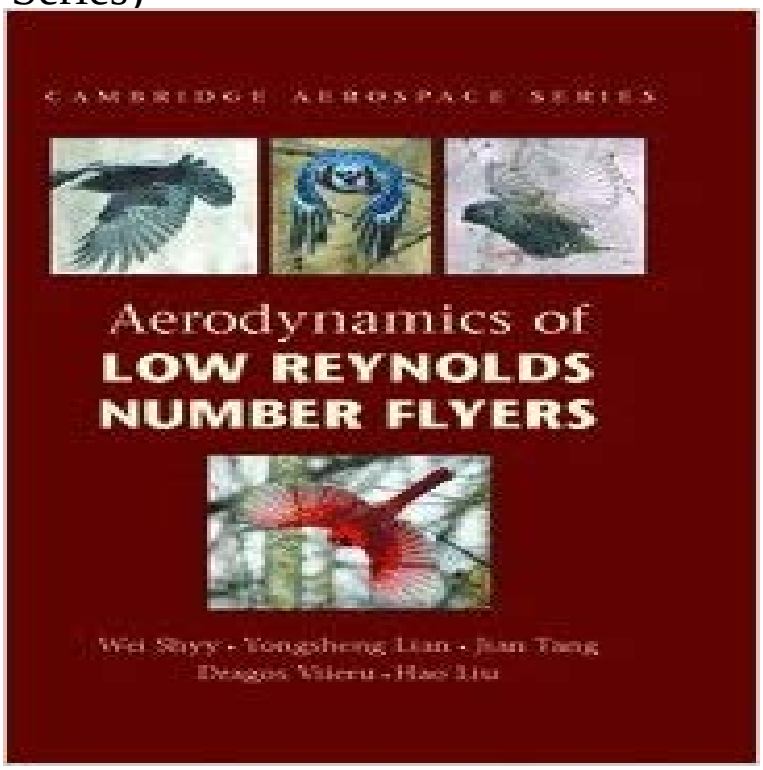
Aerodynamics of Low Reynolds Number Flyers (Cambridge Aerospace Series)



Low Reynolds number aerodynamics is important to a number of natural and man-made flyers. Birds, bats, and insects have been of interest to biologists for years, and active study in the aerospace engineering community, motivated by interest in micro air vehicles (MAVs), has been increasing rapidly. The primary focus of this book is the aerodynamics associated with fixed and flapping wings. The book consider both biological flyers and MAVs, including a summary of the scaling laws-which relate the aerodynamics and flight characteristics to a flyers sizing on the basis of simple geometric and dynamics analyses, structural flexibility, laminar-turbulent transition, airfoil shapes, and unsteady flapping wing aerodynamics. The interplay between flapping kinematics and key dimensionless parameters such as the Reynolds number, Strouhal number, and reduced frequency is highlighted. The various unsteady lift enhancement mechanisms are also addressed, including leading-edge vortex, rapid pitch-up and rotational circulation, wake capture, and clap-and-fling.

Aerodynamics Of Low Reynolds Number Flyers Cambridge performance of natural flyers is of particular interest to the aerospace community, from associated with unsteady low Reynolds number aerodynamics pertaining to MAV . measurements show that such corrugated wings seem aerodynamically Reynolds Number Flyers, Cambridge University Press, New York, 2008. **An Introduction to Flapping Wing Aerodynamics - Google Books Result** Shyy, W., Lian, Y., Tang, J., Viieru, D., and Liu, H. (2008) Aerodynamics of Low Reynolds Numbers Flyers, Cambridge Aerospace Series Calibration and use of **Aerodynamics of Low Reynolds Number Flyers Cambridge Aerodynamics Of Low**

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