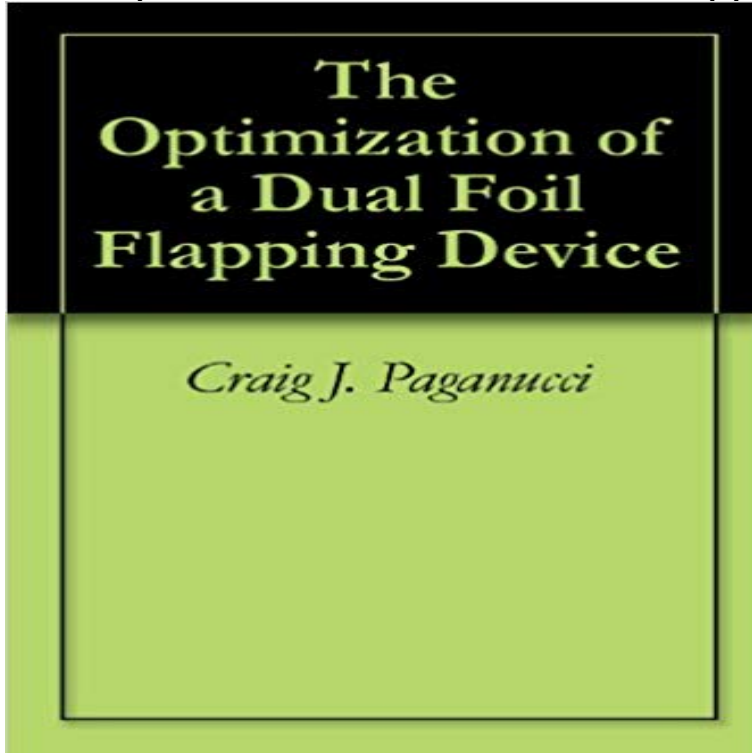


The Optimization of a Dual Foil Flapping Device



Aquatic animals, such as dolphins and tuna, have the ability to swim and maneuver at much greater capacity than any man-made device. If their propulsion methods could be replicated mechanically, the benefits to underwater propulsion would be great. A dual foil pitching-plunging device is used to replicate the basic swimming motion of a dolphin. Numerical simulations are used to predict the behavior of a single foil configuration and its wake. The numerical results are used to predict the behavior of the device and to better direct the experimental study. Experimentally, both a single and dual foil configuration are optimized, with the goal being to determine the optimal conditions for maximizing aft foil thrust production.

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