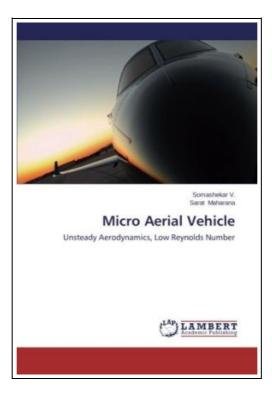
# Micro Aerial Vehicle



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Unsteady Aerodynamics, Low Reynolds Number | A bird or insect sized flapping wing Micro Aerial Vehicle (MAV) whose wingspan is of the order of a few centimeters cannot be physically built or flown today; they can be designed, tested, flown and studied on the computer using numerical simulation technique. While finalizing a design is quite significant in case of MAV, understanding the flow field environment in which MAVs fly is equally a requirement. The flow field environments encountered by Micro Air Vehicles are fundamentally unsteady whether for fixed-wing, rotary-wing or flapping-wing configurations. High lift generation is typically a result of unsteady fluid flow phenomena in flapping flight of small birds and insects. Along with a good understanding of flow field environment of an MAV the insight into the aerodynamics characteristics of it calls for an investigation. These characteristics greatly influence the design of a prototype of an MAV which can serve the purpose of a specific application. As a first step towards exploring the flow environment and computing the aerodynamic characteristics of a smaller MAV we have chosen a fixed wing MAV for which a study is attempted considering a three dimensional flow field. | Format: Paperback | Language/Sprache: english | 197 gr | 220x150x7 mm | 136 pp.

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