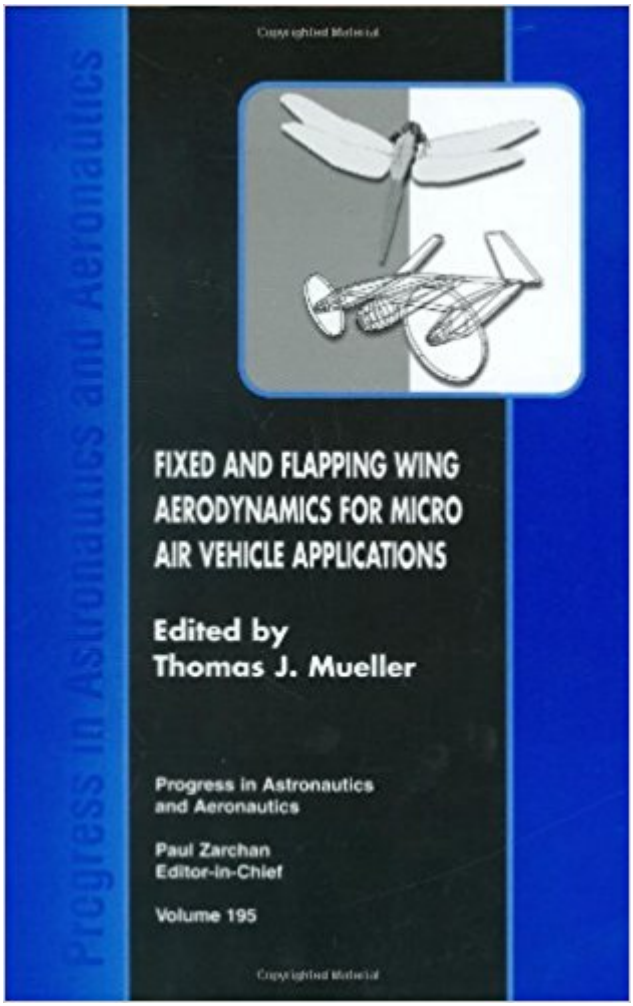
Fixed And Flapping Wing Aerodynamics For Micro Air Vehicle Applications (Progress In Astronautics And Aeronautics)



Synopsis

Recently, there has been a serious effort to design aircraft that are as small as possible for special, limited-duration missions. These vehicles may carry visual, acoustic, chemical, or biological sensors for such missions as traffic management, hostage situation surveillance, rescue operations, etc. The goal is to develop aircraft systems that weigh less than 90 grams, with a 15-centimetre wingspan. Since it is not possible to meet all of the design requirements of a micro air vehicle with current technology, research is proceeding. This new book reports on the latest research in the area of aerodynamic efficiency of various fixed-wing, flapping wing, and rotary wing concepts. It presents the progress made by over 50 active researchers in the field from Canada, Europe, Japan, and the United States. It is the only book of its kind.

Book Information

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Customer Reviews

Mueller is the Roth-Gibson Professor of Aerospace Engineering at the University of Notre Dame. He earned his B.S. at the Illinois Institute of Technology and his M.S. and Ph.D at the University of Illinois Urbana. He is an ASME Fellow and an AIAA Associate Fellow.

Thanks!

This book is nothing more than a compendium of AIAA papers. They were collected from a MAV

conference hosted at Notre Dame in 2001. Therefore, the papers are all 10+yrs old, the topics are all over the map, and most can now be downloaded for free. I was disappointed to find this as a collection of AIAA papers, most of which I currently already have printed out in a research binder I keep for my PhD research work. I thought this was going to be more of a unified text book, but it is just a bunch of AIAA conference papers. At over $100, PASS on this.

I found this book extremely helpful for information while recently working on my senior design project at the Rochester Institute of Technology. As of winter 2002/2003 there is very little liable information on micro air vehicle aerodynamics available free through technical papers and other readings that I could find. After looking for information for nearly a month I purchased this book and had several of my questions on MAV design and applications answered. This book is primarily a collection of AIAA and university MAV technical papers. I would recommend this book to any college student or professor working on a MAV related project.

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