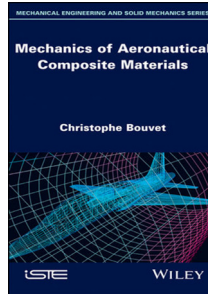


This book contains a number of thought-provoking ideas, illustrated by interesting and practical applications in aviation safety. It also stakes a worthy claim for probabilistic modelling to be given a more central role in aerospace psychology. However, the ideas need further development before they can be considered of practical use. This, together with the hefty cost of the book, means that most interested readers would be better off consulting a select few of the journal papers on which the book is based.

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## Mechanics of Aeronautical Composite Materials

**C. Bouvet**

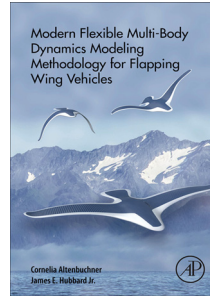
*ISTE Ltd. and John Wiley and Sons, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK. 2017. xv; 296pp. Illustrated £94.95. ISBN 978-1-78630-114-7.*

*The Mechanics of Aeronautical Composite Materials*, a book authored by C. Bouvet, presents the reader with a very concise summary of the basic elements required for understanding the analysis and sizing of aerostructures made of laminated fibre reinforced plastics.

The topic of structural analysis of composite materials can seem very daunting to audiences when they are first introduced to it. To name a few issues – difficulties in comprehension arising from the complexity of the material constituents and how these are arranged in the structure, the available analysis methods and, along with their respective assumptions and the concepts of failure and how to safeguard against them, highly complex elements that are challenging to properly present.

The author has managed to condense the basic required knowledge for understanding laminated composites for aerostructural applications in a well-structured and quite coherent manuscript. The book is addressed to undergraduate student audiences, but it can definitely be used by professional, non-expert field engineers for a quick introduction. A possible, future proofread revision of it will be of great benefit to this book.

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## **Modern Flexible Multi-Body Dynamics Modeling Methodology for Flapping Wing Vehicles**

**C. Altenbuchner and  
J. E. Hubbard**

*Academic Press, Elsevier, The Boulevard,  
Langford Lane, Kidlington, Oxford, OX5  
1GB, UK. 2018. xxvii; 169pp. Illustrated  
£118. ISBN 978-0-12-814136-6.*

Flapping-wing vehicles are not only a topical application in modern aerospace research but are also an intriguing problem of fundamental interest to fluid dynamicists, aeroelasticians and biologists. They represent a pinnacle in design by natural selection for slow, highly-maneuvrable flight in disturbed/turbulent atmospheric conditions. Advances in the modelling of flapping-wing vehicles are not only desirable from the design perspective but are also important in improving fundamental understanding of a complex interdisciplinary problem.

This book presents rigorous techniques for modelling the multi-body dynamics problem