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Review

"Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes advances understanding of the initial optimization of civil airplanes and is a must-have reference for aerospace engineering students, applied researchers, aircraft design engineers and analysts." (Expofairs.com, 13 August 2013)

From the Back Cover

Although the overall appearance of modern airliners has not changed a lot since the introduction of jetliners in the 1950s, their safety, efficiency and environmental friendliness have improved considerably. Main contributors to this have been gas turbine engine technology, advanced materials, computational aerodynamics, advanced structural analysis and on-board systems. Since aircraft design became a highly multidisciplinary activity, the development of multidisciplinary optimization (MDO) has become a popular new discipline. Despite this, the application of MDO during the conceptual design phase is not yet widespread.

Advanced Aircraft Design: Conceptual Design, Analysis and Optimization of Subsonic Civil Airplanes presents a quasi-analytical optimization approach based on a concise set of sizing equations. Objectives are aerodynamic efficiency, mission fuel, empty weight and maximum takeoff weight. Independent design variables studied include design cruise altitude, wing area and span and thrust or power loading. Principal features of integrated concepts such as the blended wing and body and highly non-planar wings are also covered.

The quasi-analytical approach enables designers to compare the results of high-fidelity MDO optimization

with lower-fidelity methods which need far less computational effort. Another advantage to this approach is that it can provide answers to "what if" questions rapidly and with little computational cost.

Key features:

- Presents a new fundamental vision on conceptual airplane design optimization
- Provides an overview of advanced technologies for propulsion and reducing aerodynamic drag
- Offers insight into the derivation of design sensitivity information
- Emphasizes design based on first principles
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2 of 2 people found the following review helpful.

Very readable overview of civil jet transport design, written at an advanced level

By floquet

This work summarises the author's approach to aircraft design and does a great job of covering topics of central to the process of preliminary design with a level of sophistication and integration that is not achieved in other available texts. This is more accessible, concise and up-to-date than than his earlier classic work on

aircraft design, which has a great deal of detail but is too large for an overview to be readily obtained by advanced students. The current book is very good at explaining the motivation and interconnections of the various parts of the design process. Also it covers topics that are not dealt with in other texts, such as the potential impact of laminar flow technologies, unconventional layout options, and advanced turbofans. The book is written for graduate-student-llevel readership but could potentially be used as an adjunct to undergraduate teaching programmes.

1 of 1 people found the following review helpful.

Useful reference book for commercial aircraft designers

By Anthony P. Hays

This new book is a bit of a disappointment. One of Torenbeek's earlier books, "Synthesis of Subsonic Airplane Design", is an essential reference book for designers of transport-category subsonic aircraft (i.e., airliners). It was published in 1982, and some of the data needed to be updated. I had hoped that this new book would provide that update. Although the book does provide some new data, Torenbeek veers off into some rather esoteric areas of aircraft design and design optimization. The book itself is also structured in a rather disjointed manner. It contains a large bibliography, which is useful in itself, and it's still a useful reference book.

0 of 0 people found the following review helpful.

Another Masterpiece

By C. G. Torenbeek

I have all three books by the author for reference.Professor Torenbeek's books are quite well used through the aviation industry. Very readable.

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