



Commercial Airplane Design Principles (Elsevier Aerospace Engineering)

By Pasquale M Sforza

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Commercial Airplane Design Principles is a succinct, focused text covering all the information required at the preliminary stage of aircraft design: initial sizing and weight estimation, fuselage design, engine selection, aerodynamic analysis, stability and control, drag estimation, performance analysis, and economic analysis.

The text places emphasis on making informed choices from an array of competing options, and developing the confidence to do so.

- Shows the use of standard, empirical, and classical methods in support of the design process
- Explains the preparation of a professional quality design report
- Provides a sample outline of a design report
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Editorial Review

About the Author

Pasquale Sforza received his PhD from the Polytechnic Institute of Brooklyn in 1965. He has taught courses related to commercial airplane design at the Polytechnic Institute of Brooklyn and the University of Florida. His research interests include propulsion, gas dynamics, and air and space vehicle design. Dr. Sforza has also acted as Co-Editor of the Journal of Directed Energy and Book Review Editor for the AIAA Journal. His previous books include Theory of Aerospace Propulsion (Butterworth-Heinemann, 2011) and Commercial Airplane Design Principles, (Butterworth-Heinemann, 2014)

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