



Airplane Design Part V: Component Weight Estimation

By Dr. Jan Roskam

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Airplane Design Part V: Component Weight Estimation is the fifth book in a series of eight volumes on airplane design. The airplane design series has been internationally acclaimed as a practical reference that covers the methodology and decision making involved in the process of designing airplanes. Educators and industry practitioners across the globe rely on this compilation as both a textbook and a key reference. Airplane Design Part V: Component Weight Estimation familiarizes the reader with the following fundamentals: - Class I method for estimating airplane component weights - Class I method for estimating airplane moments of inertia - Class II methods for detailed airplane component and grouping weights - V-n diagram methods - Class II method for structure weight - Class II method for powerplant weight - Class II method for fixed equipment weight - Data and methods for center of gravity location of individual components - Class II method for airplane moments and products of inertia - Data base for airplane component weights - Data base for airplane non-dimensional radii of gyration

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Editorial Review

About the Author

Dr. Jan Roskam has authored ten books on airplane flight dynamics and airplane design. He co-authored Airplane Aerodynamics and Performance with Dr. CT. Lan. He has written more than 160 papers on these topics and authored the popular Roskam's War Stories. He has actively participated in more than 36 major airplane programs. He retired as Ackers Distinguished Professor of Aerospace Engineering at The University of Kansas (KU) in 2003, where he taught airplane design, stability and control. Dr. Roskam retired as President of DARcorporation (Design, Analysis and Research Corporation) in 2004. He currently serves as an active consultant for DARcorporation, which develops and markets airplane design and analysis software, and is a successful private and government consulting firm.

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