



Airplane Design Part I : Preliminary Sizing of Airplanes

Jan Roskam, J. Roskam

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Airplane Design Part I: Preliminary Sizing of Airplanes is the first 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 I: Preliminary Sizing of Airplanes familiarizes the reader with the following fundamentals: - Estimating take-off gross weight, empty weight and mission fuel weight - Sensitivity studies and growth factors - Estimating wing area - Take-off thrust and maximum clean, take-off and landing lift - Sizing to stall speed, take-off distance, landing distance, climb, maneuvering and cruise speed requirements - Matching of all performance requirements via performance matching diagrams

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