Important Take-off and Landing Formulas PDF



List of 20 Important Take-off and Landing Formulas







Variables used in list of Take-off and Landing Formulas	Constants, Functions, Measurements used in list of
above	Take-off and Landing Formulas above
 AR Aspect Ratio of a Wing b Wingspan (Meter) C_{D,0} Zero-Lift Drag Coefficient C_{L,0} Parasite Drag Coefficient C_{L,max} Maximum Lift Coefficient D Drag Force (Newton) e Oswald Efficiency Factor F_D Drag (Newton) e Oswald Efficiency Factor F_D Drag (Newton) theight from Ground (Meter) Lift (Newton) N Thrust Force (Newton) S Reference Area (Square Meter) S_Q Takeoff Ground Run (Meter) s_L Lift Distance (Newton) S Reference Area (Square Meter) S_Q Landing Roll (Meter) Liftoff Distance (Meter) S_L Liftoff Distance (Meter) V_{LO} Liftoff Distance (Meter) V_{LO} Liftoff Veter per Second) V_{LOS} Aircraft Lift Off Speed (Meter per Second) V_{LOS} Aircraft Lift Off Speed (Meter per Second) V_T Touchdown Velocity (Meter per Second) V_T Touchdown Point (Meter per Second) V_T Touchdown Point (Meter per Second) V_T Coefficient of Rolling Freistance Coefficient p_m Reight Of Aircraft (Kilogram) W Weight (Newton) W Tright Vetocity (Meter per Second) V_T Coefficient of Rolling Freistance Coefficient p_m Freestream Density (Kilogram per Cubic Meter) \$ d Ground Effect Factor 	 constant(s): pl, 3.14159265358979323846264338327950288 Archimedes' constant constant(s): [g], 9.80665 Gravitational acceleration on Earth Functions: int, int(expr, arg, from, to) The definite integral can be used to calculate net signed area, which is the area above the x -axis minus the area below the x -axis. Functions: sqrt, sqrt(Number) A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number. Measurement: Length in Meter (m) Length Unit Conversion C Measurement: Weight in Kilogram (kg) Weight Unit Conversion C Measurement: Speed in Meter per Second (m/s) Speed Unit Conversion C Measurement: Force in Newton (N) Force Unit Conversion C Measurement: Force in Newton (N) Force Unit Conversion C Measurement: Conversion C Measurement: Conversion C Measurement: Force in Newton (N) Force Unit Conversion C Measurement: Conversion C Measurement: Conversion C

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