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This book discusses aircraft flight performance, focusing on commercial aircraft but also considering examples of high-performance military aircraft. The framework is a multidisciplinary engineering analysis, fully supported by flight simulation, with software validation at several levels. The book covers topics such as geometrical configurations, configuration aerodynamics and determination of aerodynamic derivatives, weight engineering, propulsion systems (gas turbine engines and ...

Advanced Aircraft Flight Performance by Antonio Filippone

Overview. The aircraft climb includes a variety of flight problems in which the airplane usually (not always) gains altitude. We define the general governing equations for flight in the vertical plane and thence some closed-form solutions for the propeller and jet airplane (§ 10.2).

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Book Description This book on aircraft flight performance focuses on commercial aircraft, with some examples of military aircraft. The framework is a multidisciplinary engineering analysis, supported by flight simulation, with software validation at several levels.

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For the sake of generality, we also present the range equation, which is solved in closed form (§ 12.4), and deal with the separate problems of jet aircraft at subsonic speed (§ 12.5) and propeller aircraft (§ 12.6). We show a number of more advanced studies in cruise altitude selection (§ 12.7), cruise performance deterioration (§ 12.8 ...

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In § 15.7 we discuss more advanced problems, such as service with an intermediate stop (§ 15.7.1), tankering (§ 15.7.2) and the point-of-no-return (§ 15.7.3). We proceed with the calculation of the direct operating costs (§ 15.8). We show some case studies: an aircraft selection problem (§ 15.9), a fuel mission planning for a transport ...

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This book deals with aircraft flight performance. It focuses on commercial aircraft but also considers examples of high-performance military aircraft. The framework is a multi-disciplinary engineering analysis, fully supported by flight simulation, with software validation at several levels.

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This text, written at a level accessible to advanced undergraduate and beginning graduate students, covers all aspects of flight performance of modern day high-performance aircraft, from take-off to landing, through different phases of flight in climb, cruise, turning and descent.

Flight Mechanics of High-Performance Aircraft (Cambridge ...

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