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### 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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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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