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Flight Mechanics allows us to construct a mathematical model of an aircraft to analyse and predict flight characteristics. Generally, a model is a simpler representation of a system that has sufficient fidelity to represent the parameters of interest - so we are not concerned with, say, turbulence modeling in this course as this is a higher order parameter when understanding aircraft performance, stability, and control.

Course Introduction — Aircraft Flight Mechanics by Harry ...

Flight Performance of Aircraft is an academic book that directly corresponds to real-life situations. This text presents performance analysis of almost all the phases of flight. Mechanics of Flight, Alfred Cotterill Kermode, 1996, Technology & Engineering, 514 pages.

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