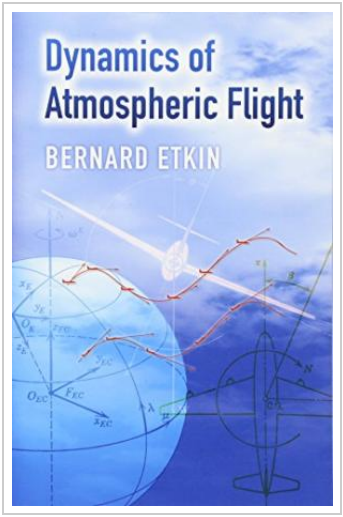

Dynamics of Atmospheric Flight (Paperback)

By Bernard Etkin

Dover Publications Inc., United States, 2005. Paperback. Condition: New. Language: English . Brand New Book. Geared toward upper-level undergrads, graduate students, and practicing engineers, this comprehensive treatment of the dynamics of atmospheric flight focuses especially on the stability and control of airplanes. An extensive set of numerical examples covers STOL airplanes, subsonic jet transports, hypersonic flight, stability augmentation, and wind and density gradients. The equations of motion receive a very full treatment, including the effects of the curvature and rotation of the Earth and distortional motion. Complete chapters are given to human pilots and handling qualities and to flight in turbulence, with numerical examples for a jet transport. Small-perturbation equations for longitudinal and lateral motion appear in convenient matrix forms, both in time-domain and Laplace transforms, dimensional and nondimensional.

Reviews

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