

Chapter 28

Wing problems

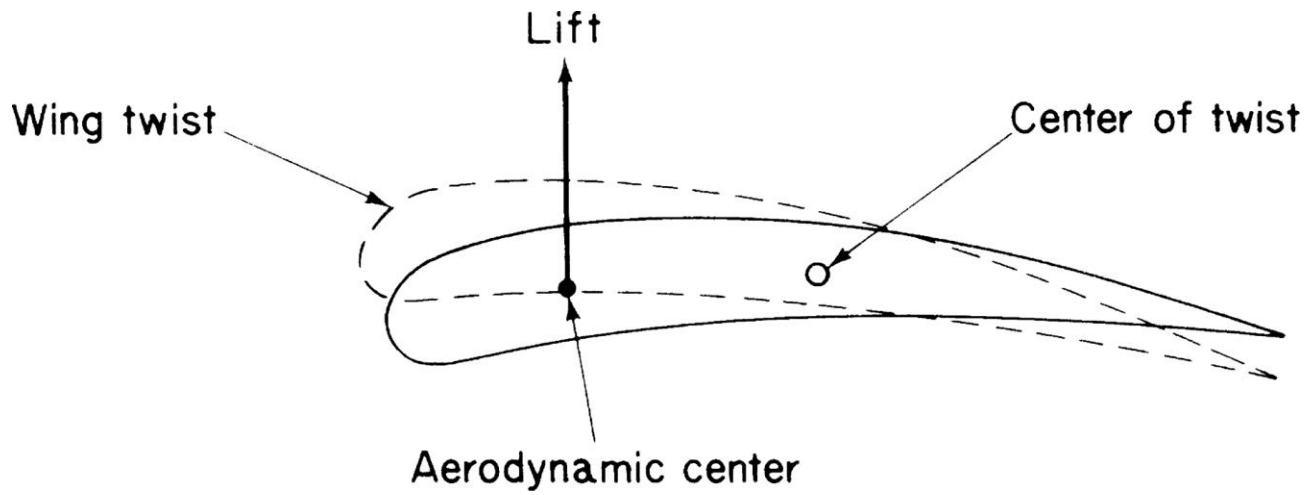


FIGURE 28.1 Increase in Wing Incidence Due to Wing Twist

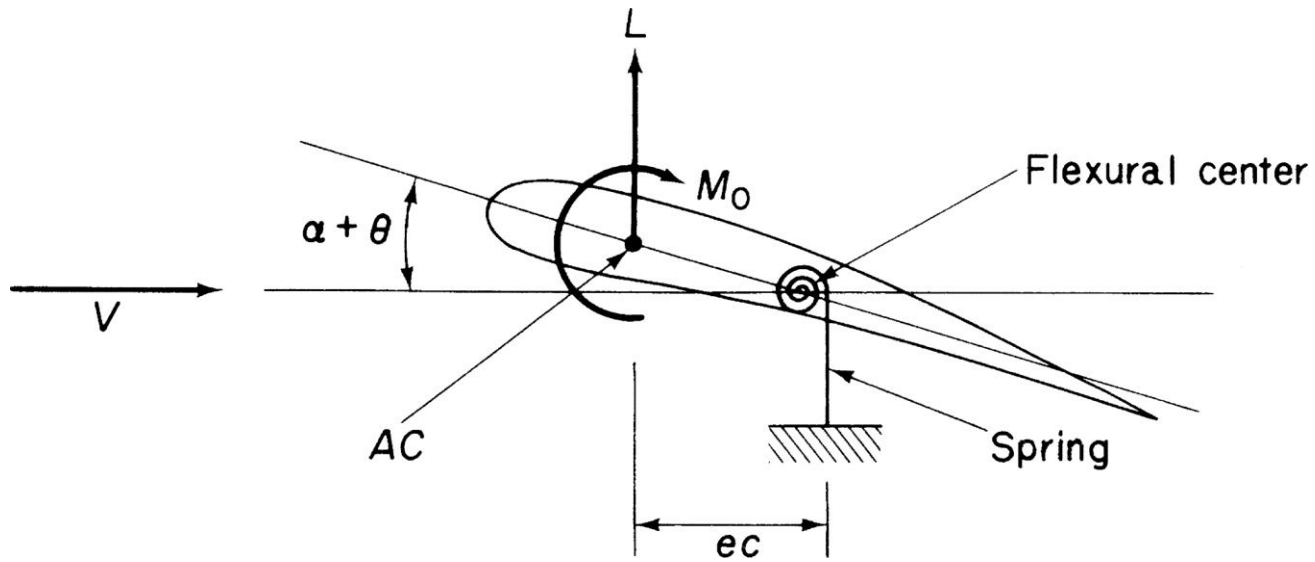


FIGURE 28.2 Determination of Wing Divergence Speed (Two-Dimensional Case)

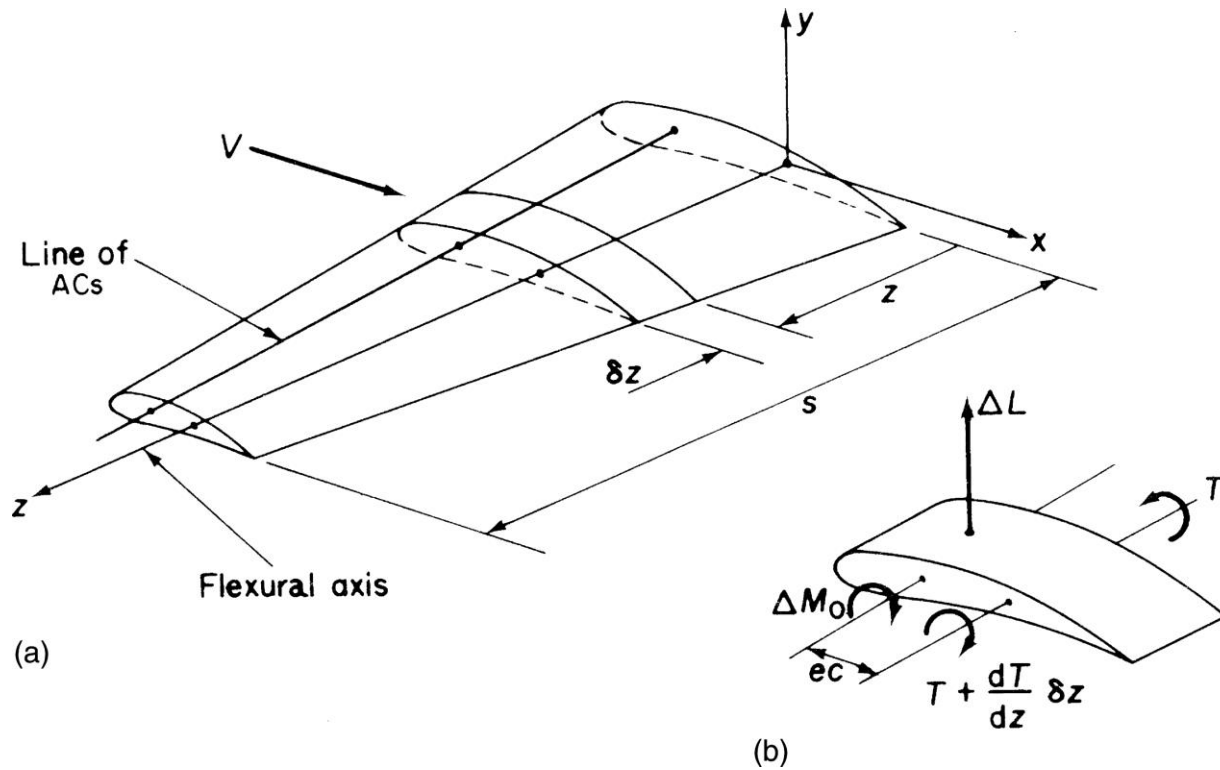


FIGURE 28.3 Determination of Wing Divergence Speed (Three-Dimensional Case)

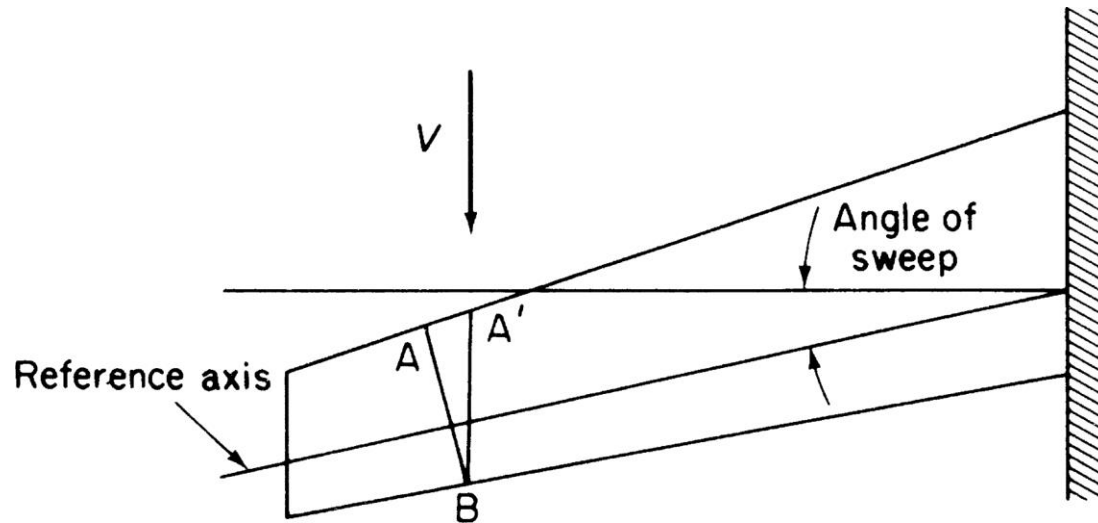


FIGURE 28.4 Effect of Wing Sweep on Wing Divergence Speed

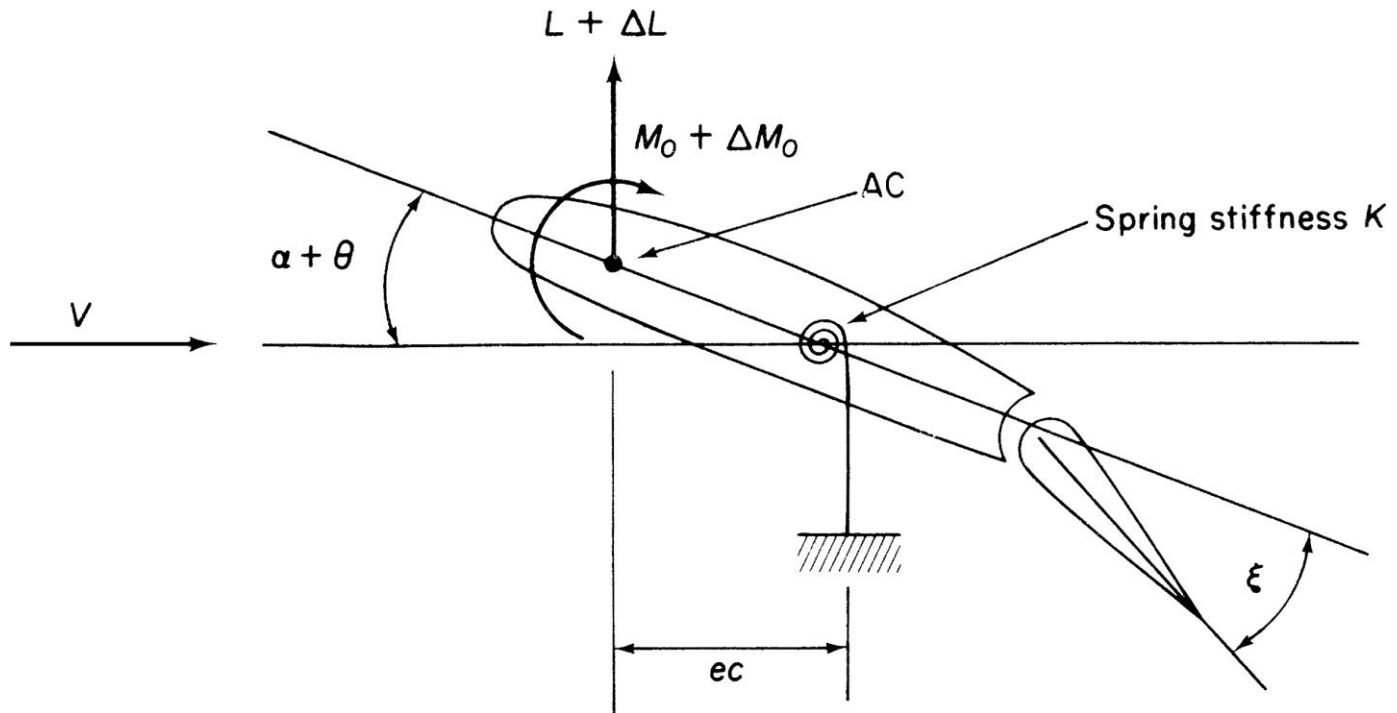


FIGURE 28.5 Aileron Effectiveness and Reversal Speed (Two-Dimensional Case)

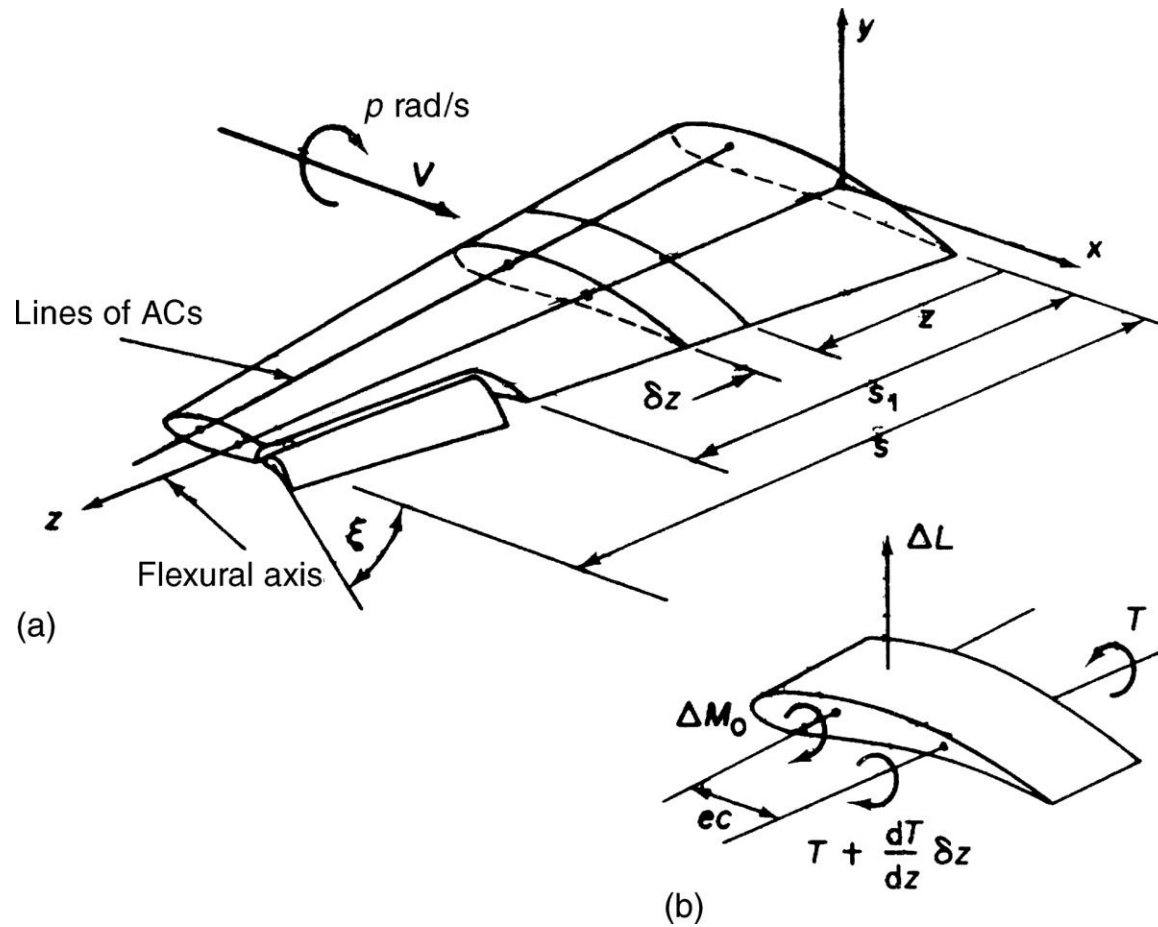


FIGURE 28.6 Aileron Effectiveness and Reversal Speed (Finite Wing)

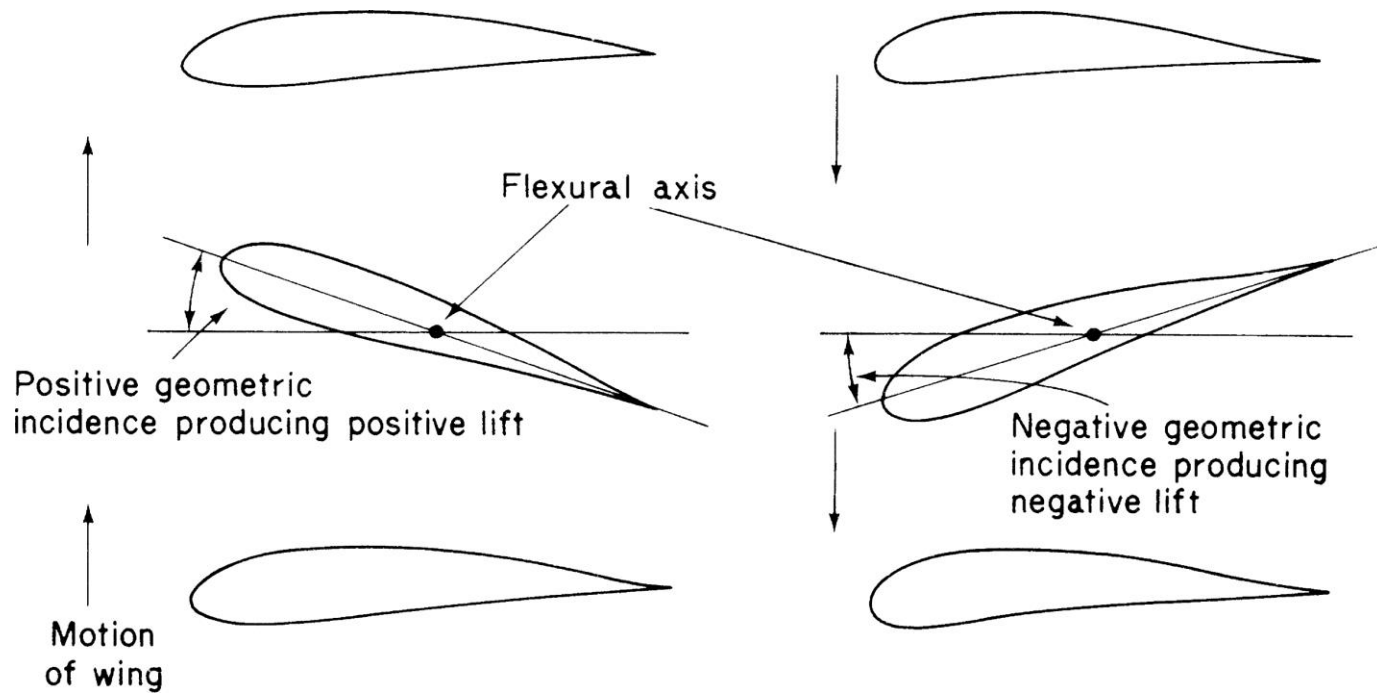


FIGURE 28.7 Coupling of Bending and Torsional Oscillations and Destabilizing Effect of Geometric Incidence

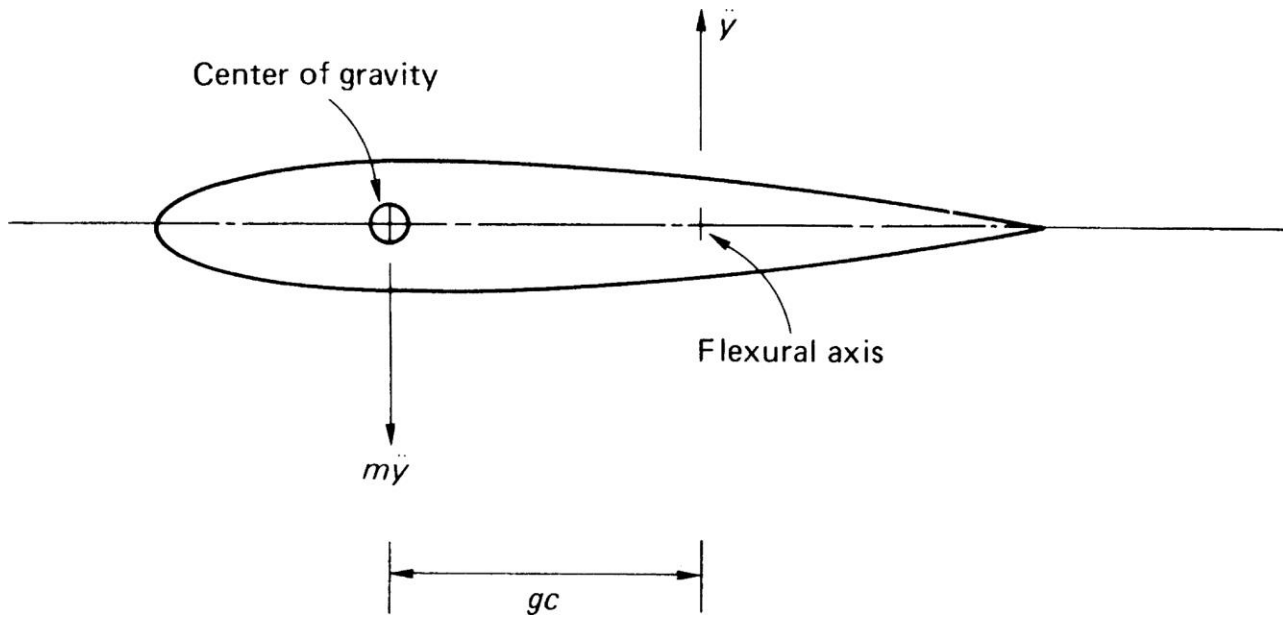


FIGURE 28.8 Inertial Coupling of a Wing

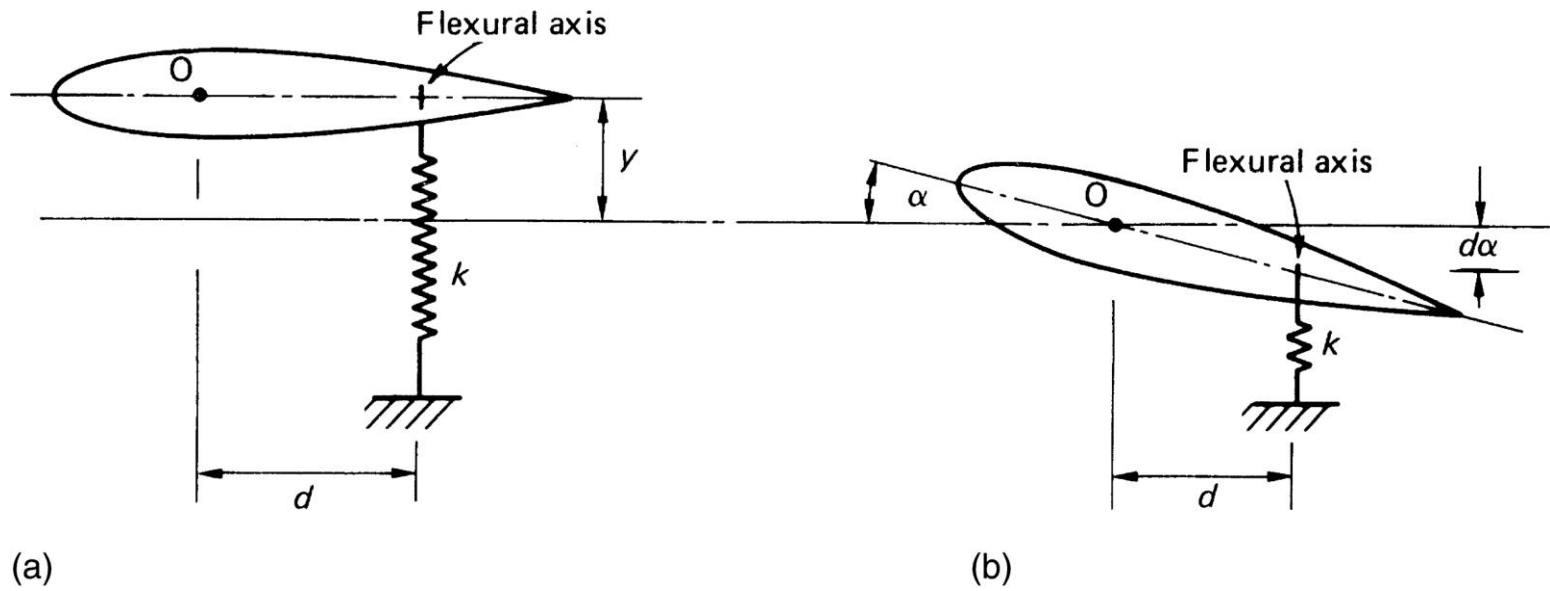


FIGURE 28.9 Elastic Coupling of a Wing

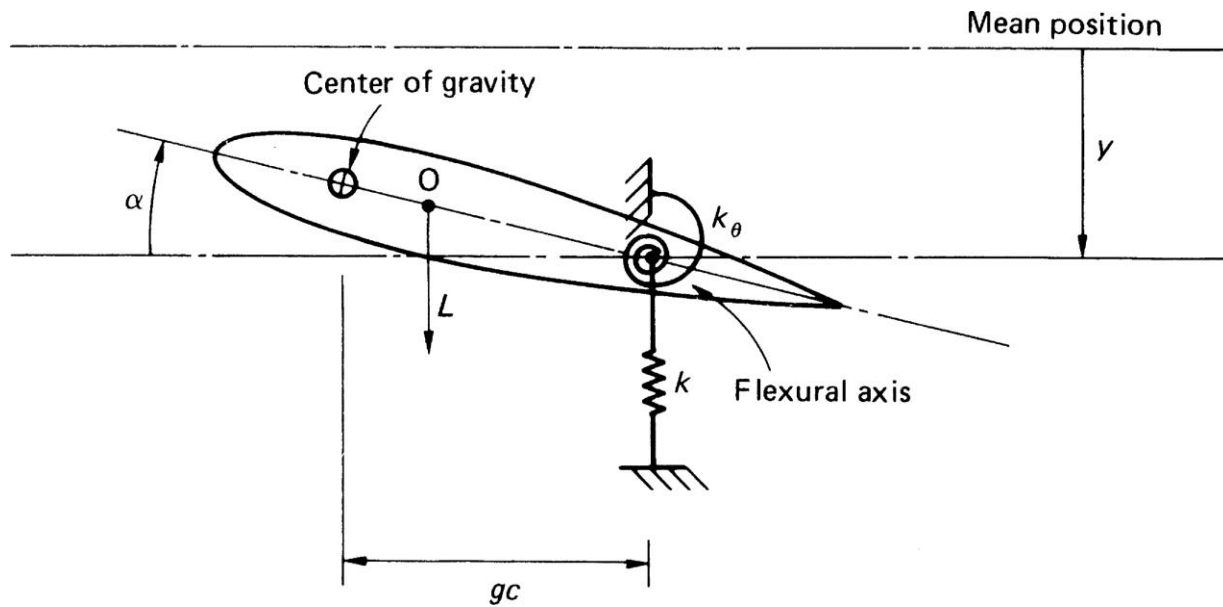


FIGURE 28.10 Flutter of a Wing Section

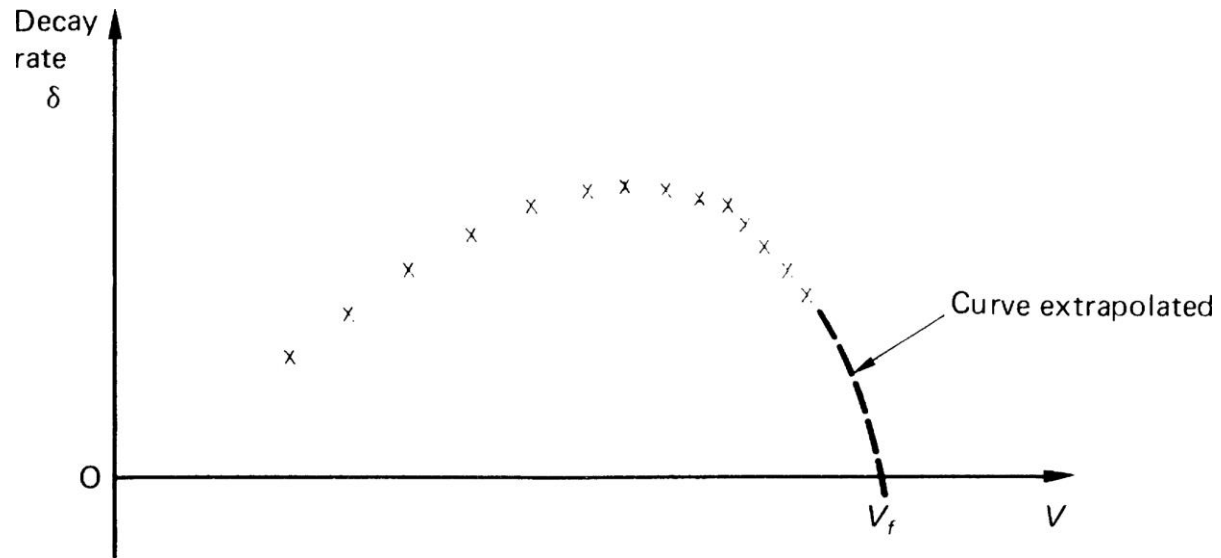


FIGURE 28.11 Experimental Determination of Flutter Speed

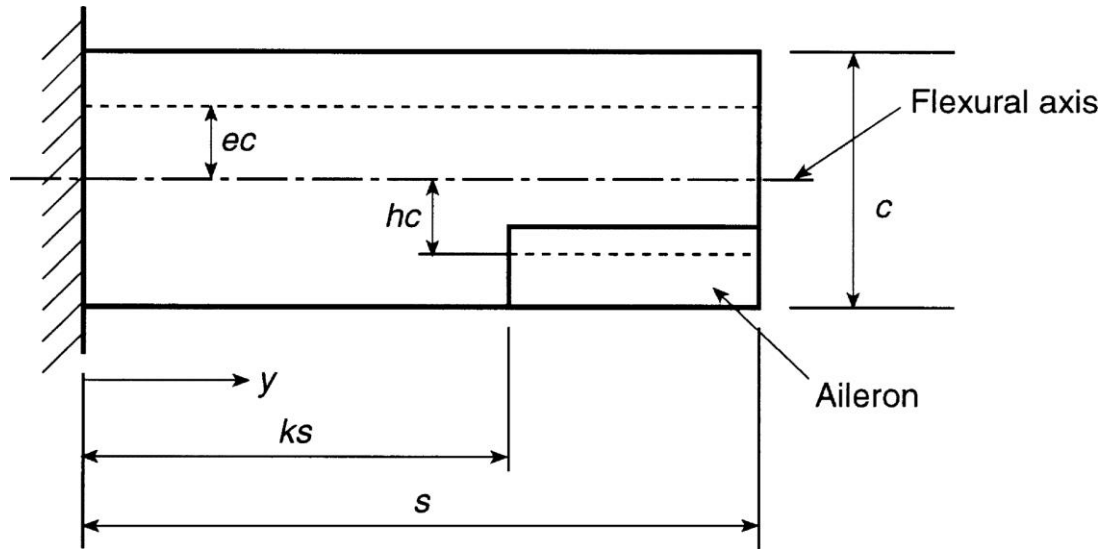
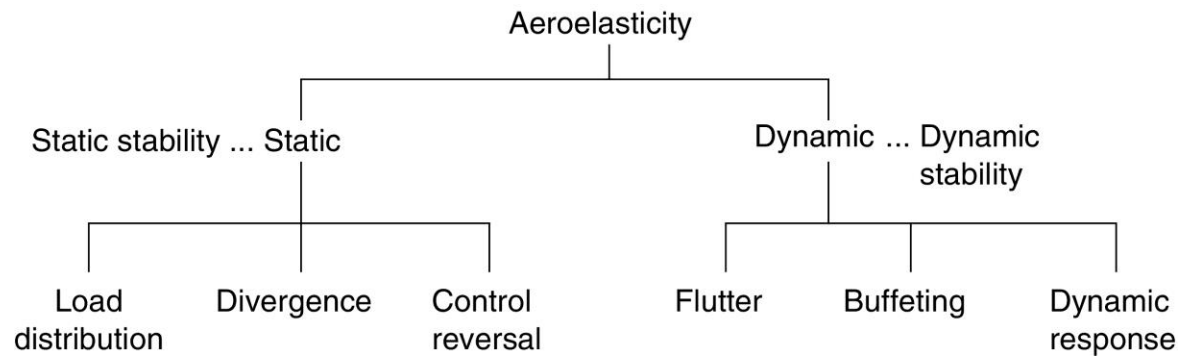


FIGURE P.28.5



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