

1056-J1-1756      **george rublein\*** ([gtrubl@math.wm.edu](mailto:gtrubl@math.wm.edu)), Department of Mathematics, College of William and Mary, Williamsburg, VA 23187-8795. *The Mathematics of Powered Flight. The airplane course revisited.*

In the electronically updated version of "The Mathematics of Powered Flight", students simulate the navigational relationship between cockpit avionics and FAA published instrument flight maps. Harsh cross-wind landings that can be computed geometrically are illustrated with web-based views of near-accidents. Aviation weather reports from the National Weather Service announce wind and pressure information, both of which are employed in the analysis of safe landing procedures. (Received September 22, 2009)