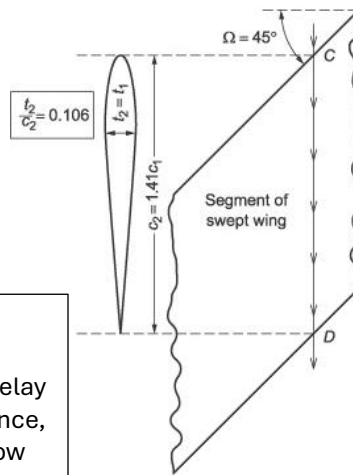
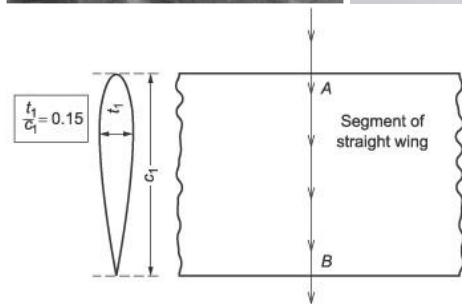
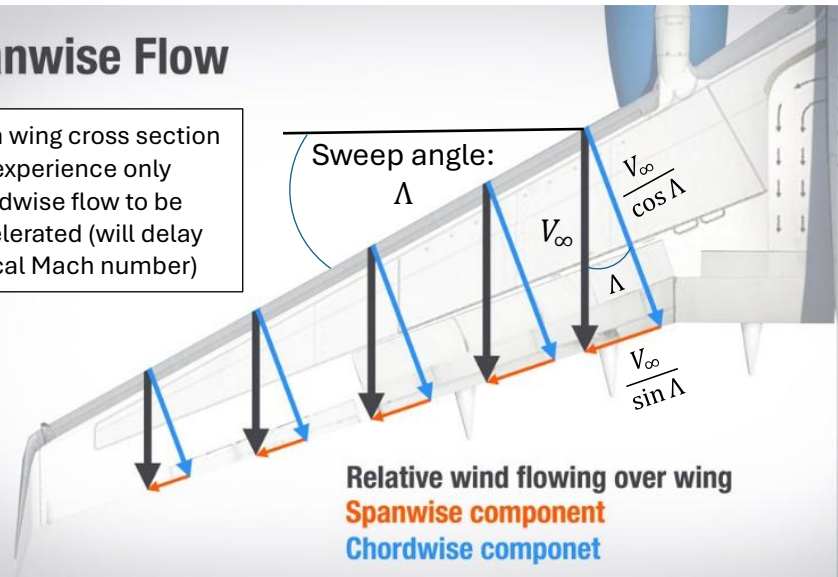


(KEY CONCEPT) [D-2-1]



Spanwise Flow

Each wing cross section will experience only chordwise flow to be accelerated (will delay critical Mach number)



Incoming flow over a swept wing will experience a "modified" airfoil: an "elongated" much "thinner" shape (will delay critical Mach number, delay drag divergence, and minimize wave drag at supersonic flow)

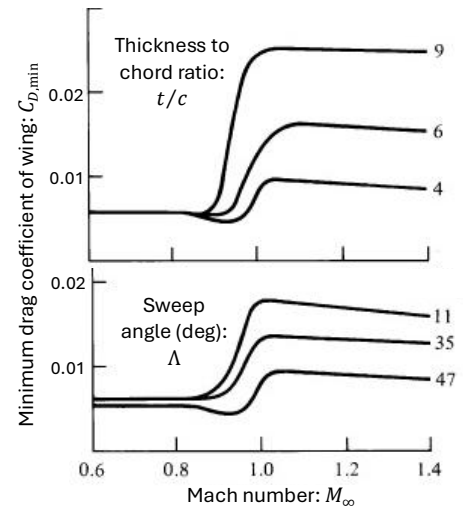


Image of F-111 (source: U.S. Air Force) Spanwise flow sketch (source: boldmethod.com)
Wing and airfoil sketch (source: J.D. Anderson "Fundamentals of Aerodynamics" 2016)

Lined area for notes, consisting of multiple horizontal dashed lines.