ASEN 5519 Boundary Layers and Convection Spring 2020

Lectures: Monday/Wednesday 11:30-12:45 AERO N240 Final Exam: Sunday May 3 at 7:30 pm.

Purpose: The Navier-Stokes equations and the boundary layer approximation. Exact solutions and integral methods of incompressible and compressible boundary layers. Convective heat transfer in laminar and turbulent f -2(i) -ve k10 (t) -21 (%)9TmTm /TT3 237 339 2(nt) -2 (e) 4 (gr) -7 (a) 4 (l) -2 (

1/14/2020 1 3) Conservation laws for a continuum: mass, momentum and energy; Navier-Stokes equations.

4) Simple viscous solutions of Navier-

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