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AE 8401 Aerodynamics

Important 2mark questions

Unit I

1. Define circulation.
2. How stream function and potential function are related to irrotational flow?
3. Define divergence of Vector field.

Unit II

1. Define Magnus effect.
2. Define Kutta condition.
3. What is starting vortex?

Unit III

1. What is 'Joukowski' transformation?
2. What are the assumptions made in thin airfoil theory?
3. State Cauchy-Riemann relation.

Unit IV

1. State the limitations of 'lifting line theory'.
2. Define horse shoe vortex.
3. Define aerodynamic twists.

Unit V

1. What do you mean by 'boundary layer'?
2. Define 'Momentum thicknesses'.
3. What are factors which encourage transition from laminar to turbulent flow?