Theroy of ship propulsion

1. 2D flat plate boundary layer theory

Outer solution (low Rn)

Inner solution

Velocity distribution

Turbulent case

1. Theory of ship propulsion and energy

Example of extrapolation method

ODE solution

Outer solution

Inner solution

Matlab project

1. Outer potential flow around 3D body

Source distribution, Doublet distribution, vortex sheet

Solve with Green function

Numerical computation