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Vorticity Free-Stream Boundary Condition

Instead of assuming the scalar vorticity to be zero in the free stream, that is,

$$\omega_{n,j} = 0,$$

another option is to take the normal derivative to be zero, that is,

$$\left. \frac{\partial \omega}{\partial \xi} \right|_{(n,j)} = 0.$$

Derive the corresponding boundary condition on $\omega_{n,j}$.

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