An Internet Book on Fluid Dynamics

Problem 255A

Starting with the potential flow pressure distribution around a cylinder, use Thwaites method to find the location of laminar boundary layer separation from the cylinder. Note that the momentum thickness at the front stagnation point is zero.

Footnote: In the actual flow the boundary layer and the wake modify the pressure distribution significantly so that the actual point of laminar separation is substantially upstream of the result you obtain using the above calculation.