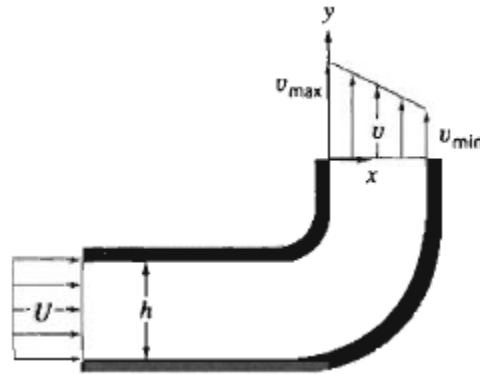


Fluid Mechanics and Rate Processes: Fluid Kinematics Tutorial: August 18, 2016

P1. (4.26, Fox and McDonald, 6th Ed.) Water enters a two-dimensional channel (90° bend) as shown in the Fig below. The inlet velocity profile is uniform while the outlet profile is assumed to be linear, as indicated in the Fig. evaluate v_{\min} for $v_{\max}=2v_{\min}$. $U=7.5\text{m/s}$, $h=75.5\text{mm}$



Flow through a 90° bend