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Calculate the maximum velocity and the corresponding flow rate (in cm<sup>3</sup>/s) at which laminar flow of water is possible in tubes with the following diameters: D = 0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 10.0 in. Solution:  $\frac{VD}{\nu} \geq 2$  Reynolds No:  $N_{Re} = \frac{VD}{\nu}$  Water:  $\rho = 1$  gm/cc,  $\mu = 1$  cP = 0.01 g/(cm s)  $\frac{VD}{\nu} \geq 2000$   $\frac{D}{\nu} \geq 2$  Laminar:  $N_{Re} \leq 2000$   $\nu = \frac{\mu}{\rho}$ ,  $Q = VD$   $\frac{D}{\nu} \geq 4$  For, D = 0.25 in :  $2000 \geq 0.01$  g cm s  $\nu = \frac{VD}{N_{Re}} = \frac{31.5}{2000} = 0.01575$  cm<sup>2</sup> s<sup>-1</sup> ( 25x 2.54 cm )  $1$  cc g  $\frac{D}{\nu} \geq 4$  ( 0.25x 2.54 cm )  $2$   $Q = \frac{VD}{4} = 4$  (31.5 cm s ...

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Fluid Mechanics for Chemical Engineers

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Fluid mechanics is the study of fluid behavior (liquids, gases, blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological systems are presented and discussed.