

ChE 306: HEAT TRANSFER

FALL 2010

QUIZ #3

(10 points)

WEDNESDAY, SEPTEMBER 22 *NAME: SOLN*

1. (10 pts) Which of the following parameters/variables impact the convective heat transfer coefficient, h , for fluid flow over a heated surface? (mark each one that impacts h with an X)

Fluid Viscosity

Fluid Velocity

Fluid Density

Surface (solid) Density Surface Thermal Conductivity

Surface Emissivity Fluid Thermal Conductivity

Surface Roughness

Fluid Reynolds Number

Surface Shape (flat/curved)

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