## **ENGR 335**

## **KEY WORDS FOR CH 13**

flow visualization marker

stagnation pressure

Pitôt tube static pressure wall tap static tube

cup anemometer propeller anemometer

non-intrusive spatial resolution temporal resolution hot-wire anemometer laser Doppler anemometer

volume flow rate discharge mass flow rate multi-phase flow

slurry

Coriolis flow meter

bucket and stop watch method velocity profile integration

rotometer

obstruction flow meter

venturi

orifice plate meter vena contracta flow coefficient ultrasonic flow meter

turbine meter

## STUDY QUESTIONS

- 1. Describe one velocity measurement method that is non-intrusive.
- 2. Describe one flow rate measurement method that is non-intrusive.
- 3. Would a rotometer be a good choose for a coal slurry flow? Why or why not?
- 4. We need to measure air flow speed for a flow that is rapidly changing with time. Which method is a match?