**Problem 1**

**1)** When evaluating the performance of a sensor it is important to consider the following: input/output impedance, static and dynamic response, resolution, dynamic range, and sensitivity.

Ideally, a sensor will have low output impedance or high input impedance, to minimize the feedback into the system which can alter the information being relayed.

The dynamic response is how fast, the sensor responds to a changing input, the faster the response the better. The static response is the steady-state response of the sensor to a constant input, and is characterized by the static response curve.