

6. Define common-mode rejection ratio (CMRR).

7. How is the gain of the AD620 instrumentation amplifier set? What is the nominal value of gain resistance used in this experiment? What nominal gain does this correspond to?

8. What are manufacturer's specifications for the AD620AN in terms of the following parameters? Be sure to include proper units.

Minimum gain _____ Maximum Output Offset ($\pm 15V$) _____

Typical Gain Nonlinearity _____ CMRR at $G = 100$ _____

Minimum Power Supply Voltage _____ Maximum Power Supply Voltage _____

Maximum Gain Error at $G = 10$ _____ Typical Input Impedance _____

9. How many gages are installed on the cantilever beam? What bridge configuration (quarter, half, or full) is used?

10. Sketch the bridge circuit used for the strain gage measurements in this experiment. Identify the strain gages, the fixed resistors, the bridge-zeroing potentiometer and the amplifier. Do not include the connections on the circuit board or to the amplifier package. Rather use only those elements that would be part of a standard circuit schematic.