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Answer to the Question no-01

Describe the working of a transducer and an actuator.

A transducer is a device which converts one form of energy into another. An actuator is a device that converts energy into motion.

Therefore it is a specific type of a transducer. When the output of the transducer is converted to a readable format the transducer is called a sensor.

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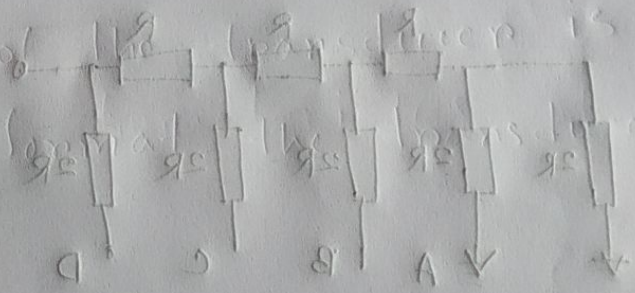
Answer to the question no-2

Disadvantage of a digital ramp ADC.

1. large errors possible due to noises.
2. filters are required
3. excellent ramp linearity requirement.

Answer to the question no-3

Therefore it is a specific type of a transducer. When the output of a sensor is converted to a readable form it is called a sensor.

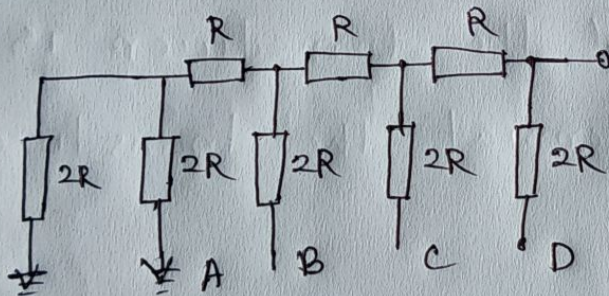


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Answer to the question no-4

R-2R Digital-to-Analogue Converter or DAC is a data Converter which use two Precision resistor to Convert a digital binary number into an analogue output signal Proportional to the Value of the digital number.



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Answer to the Question no-5