

Chapter 4 - Answers

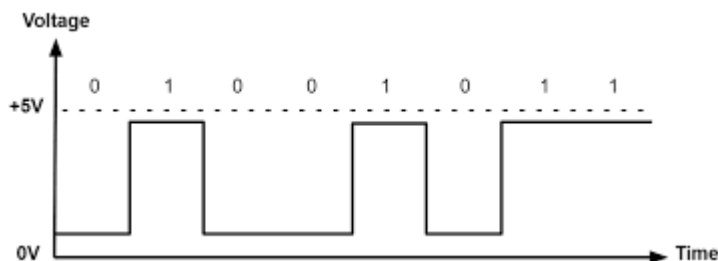
Q1 Draw an analogue signal.

An analogue signal is a signal that changes in amplitude over time when impacted by an external data.



Q2 Draw a digital signal.

A digital signal represents data as discrete values.



Q3 What is an ADC and a DAC?

A method to convert analogue signals to digital and reconvert them back to analogue is needed.

The analogue to digital conversion is referred to as the ADC.

The digital to analogue conversion is referred to as DAC.

Q4 Explain duty cycle in your own words.

The duty cycle is the ratio of the time a piece of equipment is operating to time it is off.

An amateur transmitter is not designed for 100% transmission time so has a duty cycle included in the design and should be operated within the manufacturer's parameters.