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Question

① Explain briefly the signal processing the interfacing techniques in measuring instruments.

Ans

Signal processing is a major activity. It is generally needed to be able to extract the individual frequency components which are present in a signal. Sometimes because the original signal generating the vibration contains many components. It is needed to remove components of response. To an electrical engineer it is often restricted to digitalization, sampling, filtering and spectral estimation.

② Explain briefly the expert system instrumentation.

Ans

In an artificial intelligence an expert system is a computer system which is designed to make decisions just like a human expert. These expert systems are designed to solve complex problems by reasoning through bodies of knowledge represented mainly

as "if-then" rules rather than through
conventional procedure code.