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Course: EEE 471

1) Signal processing is a major activity. It is generally required 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 (as is the case for periodic, random or different types of excitation) and other times because, it is required to eliminate spurious components of response, introduced by noise in the measuring systems.

Signal processing condenses measurements to extract information about some distant state of matter.

2) Expert System Instrumentation

In an AI, an expert system is a computer system emulating the decision making ability of a human expert. Expert systems are designed to solve complex problems by reasoning through the bodies of knowledge represented mainly as if-then rules rather than go through conventional procedural code.