

Measurement Systems

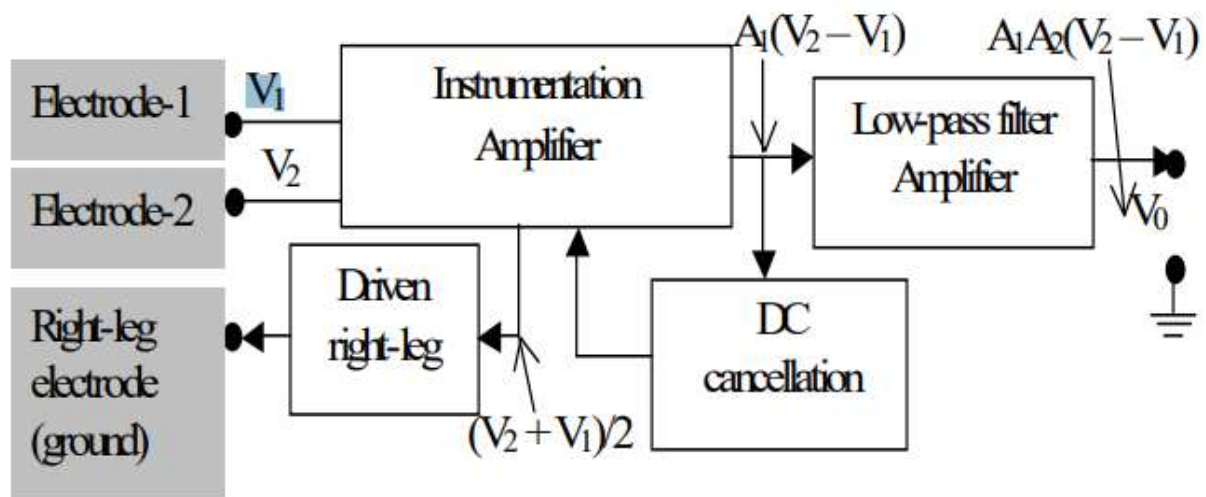
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LAB 5: ECG amplifier design



A general block diagram of a modern ECG amplifier is shown in figure.

It is designed around an instrumentation amplifier. In addition to the instrumentation amplifier it contains:

- An automatic offset (DC) cancellation circuit to keep the output always zero averaged
- A driven-right leg circuit to provide electrical safety and reduce the interference under normal operational conditions, and
- A low-pass filter that provides further amplification and limit the bandwidth of the overall system.