


(Imp) Topic

⇒ Advantage and disadvantage of R-C coupled amplifiers. 

[Advantage]

- (i) It is light and cheap.
- (ii) It has less distortion in the output.
- (iii) Its voltage gain is constant over a wide mid frequency region.

[Disadvantages]

- (i) Its voltage gain is not very high.
- (ii) Its impedance matching is poor.
- (iii) It produces noise in ~~presence~~ presence of moisture.

[Negative and positive feedback in Amplifiers]

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Feedback ⇒ The process by which a part of the output energy is fed back with the input signal is called feedback.

(1) Positive feedback \Rightarrow When the fed back signal is in phase with the input signal the feedback is called the positive feedback. In an oscillator positive feedback is used in which the output signal is fed back in phase with the input signal.

(2) Negative feedback \Rightarrow

When the fed back signal is in phase opposite to the input signal the feedback is called the negative feedback. An amplifier raises the input weak signal to a strong output signal.

\Rightarrow The feedback amplifier type

(i) Voltage feedback amplifier \Rightarrow In it the fed back voltage is directly proportional to the voltage developed across the load.

(ii) Current feedback amplifier \Rightarrow In it the ~~fed~~ fed back voltage is directly proportional to the current flowing in the load.