

AM TRANSMITTER AND RECEIVER

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ABSTRACT

This project is very much about RF technology more specifically Amplitude Modulation. Therefore, a study into the world of RF as well as understanding and manipulating it AM transmissions are necessary. There are 2 major parts of this project which are:-

1. Amplitude Modulation Transmitter
2. Amplitude Modulation Receiver

The first part is more to modulating the input signal or signal to be transmitted into an Amplitude Modulated signal. It is basically 'transforming' the signal from one form to another. It is important for the transmitter circuit to be able to modulate the signal thoroughly before it is transmitted to preserve the integrity of the signal.

The second portion of the project itself consists of 2 parts. The primary component of the receiver circuit is the AM receiver or more popularly known as the AM detector. This circuit functions to 'catch' the transmitted signal and the demodulate (change it back to its original form) it to obtain the signal in the form it was in before it was transmitted. The secondary component of the receiver circuit is the audio amplifier. The audio amplifier functions to amplify the signal from the AM detector so that a clearer and stronger output can be obtained.

As a conclusion, the entire project covers several different forms of AM manipulation and from the knowledge gathered, allows us to better understand wireless communication.