

ABSTRACT

The development of technology dealing with the communication technology is growing rapidly and has a several function on the application. Almost of every development of technology is a part of the communication technology application. Radio Direction Finder is a part of the communication technology's application to find the location of radio transmitting devices within certain frequency. The function of this device is to navigate and tracking. In making the design of this tool in use of local components that will produce tools with good quality and low prices . RDF working at VHF frequencies , especially on the FM frequency range . RDF will work with the help of a radio receiver as the receiver of a radio wave transmitter . The antenna used is the type monopole omnidirectional antenna . Antenna using monopole antenna with four working system doppler . The antenna will be set by the antenna switcher which will regulate the function of the receiving antenna of the radio frequency interchangeably . RDF will regulate the power supply to the antenna switcher . The results will be used as a receiving antenna frequency samples . The phase difference of the antenna will determine the position of the direction of the source of radio waves . Antenna switcher will be connected with a radio receiver . Radio receiver audio output and the output of RDF will be used as input to the audio input of the laptop. The results of this input will be processed by the application of sound doppler . RDF will work with radio receiver as wave receiver from radio transmitter. The output of RDF is a direction of location that will be displayed by sound Doppler application.

Key words: Radio receiver, Radio transmitter, sound doppler application, RDF