

ABSTRACT

Indonesia is archipelago in the world. The islands its make region sea is very large than land. That is one crucial for a nation to merge and control. From it's, navigation is very important for solution and to help problem for archipelago. The navigation system, we can get more information about: position places, timing, paging, and more information will be transmitted.

Time navigation system authorize from super power country example USA. That is can make a serious problem if it's un-like with once country in the world. Now we can get information place from GPS with satellite for helped. In this my final project, I will to show and explain a LORAN as a navigation technique.

The LORAN used radio terrestrial system as functional to conduct ground wave radio. With a used ground wave, to hope coverage area is large for one cell. That is can Reduce device, reduce cell and budget development.

This final project consists about design device LORAN system at RF for one cell. A cell LORAN available with one master control station, and two sleeve stations.

The information to transmit is: position, timing, and information broadcast to civil (for example: earthquake, tsunami, etc).