

HARVESTING WIND ENERGY THROUGHWIND TURBINE CONCEPT INTEGRATED WITH FREE ENERGY FLUX CUTTING AND GEAR BEARING SYSTEM

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Abstract

This paper is to analyze on many ways and methods in harvesting free energy. Three main components which are wind, turbine concept, gear bearing concept and flux cutting concept have been selected in order to harvest the energy efficiently. The objective of this paper is to find the best possibilities of the integration of the three concepts in harvesting the wind energy. The selected methods and components are based on the geographical area where this project will be implemented. The selection of each components has been decided after short listing each components and comparing it with the same component but with different designs. Based on the comparison, the efficiency of each component that offers more output and result shall be selected and implemented for this research. The results obtain show that the best model that fit the power rating is the Output Error Model (OE). Thus, it will help provide stable supply of electricity to every household in rural areas for daily activities and it can reduce household electrical bill in a long run

Author keywords

wind turbine, maglev, magnetic flux, flux cutting, gear bearing, system identification toolbox.