STUDY AND ANALYSIS INDUCTION HEATING COOKER USING HIGH FREQUENCY RESONANT CONVERTER

This project thesis is presented in partial fulfilment for the award of the

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ABSTRACT

This project studies the concept of resonant converter for induction cooker. Analysis is also performed on topologies of resonant converter, namely half-bridge resonant converter and quasi resonant converter. On top of this, methodology of controlling power intensity is furthered analysed and discussed. In order to validate the analysis result, case study on existing induction cooker using quasi resonant converter is also been performed.

In other hand, by using program PSIM, some simulation that related with this topologies of resonant converter that aim to get more understanding and the synchronization between practical and theory of this Induction Heating.

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