

SIMULATION OF HIGH VOLTAGE GENERATION CIRCUIT

**This is presented in partial fulfillment for award of the
Bachelor in Electrical Engineering (Honours) of
UNIVERSITI TEKNOLOGI MARA**



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ACKNOWLEDGEMENT

In the name of Allah swt, The Most Gracious who has given me the strength and ability to complete this project and report. All perfect belong to Allah swt, Lord of the universe. May His blessing upon the Prophet Muhammad saw, and the members of his family and companions.

I would like to express my deepest gratitude to my project supervisor Dr. Ahmad Maliki B. Omar for his guidance and patience in advising and assisting the project.

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Abstract

Modern technology has possible to gained hundreds voltage just using a simple circuit, this technology also can rectified voltage from AC power to DC power with applying the semiconductor component devices in the circuit. However, rectification generates harmonic voltage and current which can cause problems insulation failures due to overheating and overvoltages, malfunction of solid state equipment and communication. The main objective of this works is to investigate the effect of frequency on the performance of high voltage circuit converter. This project also reviews the methods or techniques to overcome the problem related to harmonic generational, beside that several types of the circuits are chosen for comparison purposes. This project is classified under the category of simulation using simulation software.

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