FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITY OF TECHNOLOGY MARA
SHAH ALAM
SELANGOR DARUL EHSAN

# MITIGATION TECHNIQUE FOR HAMONIC USING ACTIVE POWER FILTER

MOHD AZRI B ABD HAKIM
BACHELOR OF ELECTRICAL ENGINEERING (HANOUR)

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**MOHD AZRI B ABD HAKIM**
**FACULTY OF ELECTRICAL ENGINEERING**
**UNIVERSITI TEKNOLOGI MARA**
**40450 SHAH ALAM SELANGOR**

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***Mohd Azri B Abd Hakim***
*Faculty of Electrical Engineering*
*Universiti Teknologi Mara (UiTM)*
Shah Alam, Selangor Darul Ehsan

# ABSTRACT

This paper presents the development of a simulation platform for the study and conception of active power filters. This platform is developed using the MATLAB software as its base, through its environment SIMULINK and other tools, just as PSB (Power System Blockset). The system is composed of AC single phase controllers and a parallel active power filter. Studies are made to investigate the effectiveness of using active power filters in reducing harmonic distortions and also to determine the percentage current harmonic before and after installing the active power filters. The adjustable speed drives (ASD) was used to inject directly the harmonic current in this project. Study also proves that active power filters can give better performance in reducing harmonics current distortion.

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