بسم الله الرحمن الرحيم

Sudan University of Science and Technology College of Graduate Studies

Minimization of Distribution System Harmonics

(Case Study: Sudanese Malaysian Steel Factory)

A thesis submitted in partial fulfilment for the requirement for the degree of Master of Science in Electrical Power Systems Engineering to the College of Graduate Studies.

Presented by:

Mustafa Ahmed Dafalla Mustafa

Supervised by:

Dr. Eisa Bashier Mohammed

Chapter 1 Introduction

Chapter 2 Harmonics Analysis

Chapter 3 Power Distribution System Harmonics (Problems and Solutions)

Chapter 4 Filters

Chapter 5 Application for the Harmonics in the Factory

Chapter 6 Conclusion and Recommendations



