

FOREWORD

All praise is due to Allah, the Most Merciful, who has granted the author the opportunity to pursue this course of study and provided the means for its completion. Verily, there is no strength nor power except with Allah.

This research was compiled to fulfill one of the requirements in obtaining a Bachelor's degree in Electrical Engineering at the Faculty of Electrical Engineering, Telkom University.

The author realises that this Final Project book is still far from perfect and has many shortcomings that need to be corrected. Therefore, all constructive criticism, input, and suggestions are highly expected by the author for future improvements.

Finally, hopefully this Final Project can provide significant contributions and benefits for the development of science, especially in the fields of science and technology.