

ACKNOWLEDGMENTS

Alhamdulillah All praise to Allah SWT and Rasulallah SAW that has given all of His favor, Strength and guidance for author to complete this thesis book.

First, I am extremely grateful to my supervisors, Dr. Levy Olivia Nur, S.T, M.T. and Dr. Bambang Setia Nugroho, S.T, M.T for the advice, continuous support, and patience during completing this research.

Last, I'm so thankful for my parents, my brothers, my second family and my friends. Without their support and encouragement in the past few years, it would be impossible for me to complete the research.

also, I feel so grateful to all colleagues, lectures in Magister Electrical Engineering Telkom University who always give support and guidance for me.

In the process of writing this thesis, the author realizes that this book is still not perfect and needs some improvements due to the limitations of the author. The author hopes that this book can be developed in a better direction and be useful for readers and writers as well as for the world of education in general.