

Acknowledgement

In acknowledging the contributions in performing the present research work and thereby preparing this thesis, the author wishes to convey his gratitude to Prof. T.K. Basak, Head of the Department of Electrical Engineering, Jadavpur University, who has been a constant source of inspiration behind this work.

The author also expresses his indebtedness to Prof. T.K. Ghoshal, the previous Head of the Department of Electrical Engineering, Jadavpur University, who has encouraged the author althrough in carrying out the research work and has also helped the author with valuable suggestions.

The author shall be failing in his duties if he does not thank Prof. S.K. Basu, Ex-Professor, Department of Electrical Engineering, Jadavpur University, for his insistence, encouragement and advice.

The author also extends his thanks to Mr. T.K. Ghosh who has helped the author in getting the thesis typed in spite of his involvement in other activities.

The author is also grateful to his mother, wife and daughter, whose encouragement, love and sympathy were sources of inspiration for the completion of this thesis.

Finally, the author wishes to thank all his teachers, friends and other colleagues whose efforts have helped him to complete the thesis.