

ACKNOWLEDGEMENT

I feel great pleasure in expressing my sincere and deep sense of gratitude to Dr. M. S. Chaudhary, Professor, Department of Mathematics, Shivaji University, Kolhapur for suggesting, planning, and organizing the present problem and for his constant inspiration, adopt guidance, constructive criticism, scholastic valuable and kind advice, constant encouragement through the course of investigation and for critically going through the manuscript of the dissertation.

It is my great pleasure to convey my thanks to Dr. M. B. Magdum, Principal, Padmashree Dr. D. Y. Patil College of Agricultural Engineering and Technology, Talsande, Kolhapur for encouragement and generous help in various ways during the present work.

It is my proud privilege to offer my sincere thanks and well devoted thanks to Shri. K. P. Chopade and Shri H. S. Naikwadi , Department of Mathematics, D. Y. Patil Engineering College, Kolhapur, Prof. Mrs. Y. S. Pawar, Dr. C. S. Manjrekar, Dr. L. N. Katkar, , Department of Mathematics,

Shivaji University, Kolhapur for their valuable suggestion, constructive criticism and technical help throughout the present work.

I heartly wish express my special thanks to Mr. M. S. Dhumal and Mr. P. R. Ransing for their time to time help during the study.

Let me stretch sincere thanks to all colleagues and friends Pravin, Gajanan, Suhas, Kishor, Amol, and my special thanks to Sachin, Dhiraj, Vinayak, Imran for their direct and indirect help during the entire research work.

At last but not least, I think the words are insufficient to express deep sense of feeling towards my Father and Mother for encouragement towards higher studies. I would not forget to express my deep sense of respect towards my sister whose affection sacrifice and blessing have always been the vital source of inspiration to me.

Place: Kolhapur

Date: 29/11/2005



Sachin M. Vyavahare