## ACKNOWLEDGEMENT

It is my great pleasure to record my sincere gratitude to Dr. G. H. Patil, Reader, Department of Mathematics, Shivaji University, Kolhapur and Dr. M. S. Chaudhary, Professor, Department of Mathematics, Shivaji University, Kolhapur, for their inspiring guidance, and been supervision during the preparation on of present dissertation for the award of Master of Philosophy.

I am highly indebted to **Dr. H. V. Kumbhojkar**, Professor and Head, Department of Mathematics, Shivaji University, Kolhapur, for his benign encouragement and providing me all possible facilities available in the department. I wish to use this opportunity to express my greatest sense of gratitude to all the teaching and non-teaching staff members of Department of Mathematics, Shivaji University, Kolhapur, for their generous co-operation in completing my work.

I wish to use this opportunity to express my greatest sense of gratitude to **Prof. S. J. Kalgaonkar**, Head of the Department of Mathematics, Rajaram College, Kolhapur and all my colleague of Rajaram College, Kolhapur.

I am greatly indebted to my friends Shri. P. G. Andhare., Shri. S. S. Kumbhar., Shri. Ghotkar M. V. Shri., M. K. Nikam. for useful suggestions and fruitful discussion which have been of great help to me.

I am very much thankful to the Librarians of Library of Rajaram College, Kolhapur and I. I. Sc. Bangalore, for providing me Library facilities.

I feel paucity of words in expressing my infinite indebtedness and regards for the blessing of my parents **Shri Anant Morye** and **Smt. Sunanda Morye**, whose love, motivation, sacrifice and constant encouragement helped me in the successful completion of this task.

Last but not the least, I also express indebtedness to all my family members, whose affection and moral support are the base of my every success.