## ACKNOWLEDGEMENT

I have great pleasure to have been associated with and worked under the able and inspiring guidance of Dr.R.K.Saxena, Prefessor and Head of the Department of Mathematics, Shivaji University, Kclhảpur, under whose keen supervision this dissertation has beẹn prapared by me. I bave been receiving his valuable suggestions and, c̣cnstant encourage ment without which it would not have been possible for me to accomplish my purpose. I take this opportunity of acknowledging my sincere feelings of gratitude and respect for his valuable help throughout the present work.

I am extremely grateful to the University Grants Commission, New Delhi for awarding me a Teacher Fellowship for one year which enabled me to complete this work. I would like to put my tinanks to Vice-Chancellor and Registrar of Shivaji University, Kolhapur for being given me admission in the. Un:-versity Department. My sincere thanks are also due to Shri Annasaheb M. G. Pawar, Chairman, Shri Tatyasaheb P.E.Patil, Secretary and other authorities of, the J.D.M.V.P.Cc-op.Samaj Jalgaon and Principal Dr.K.R. Scnawane, J.D.M.V.P.Go-cp.Samaj's Shri S.S.Patil Arts, Shri Bhausaheb T.T.Salunkhe Commerce and Shri G.ir, Pandit Science. College, Jalgavn for granting me a study leave of one year and giving an ample opportunity for higher studies.

My thanks go to Shri G.A.Chaudhari, M. Sc., Head of the Department of Mathematics and my colleagues, Shri E.M. Patil, Shri J.D.Patil, Shri P.Y.Pawar and Shri D.P.Marathe, J.D.M.V.P. Co-op.Samaj's Shri. S.S.P.Arts, Shri T.T.S.Commerce and Shri G.R. P. Science College, Jalgaon, for their constant encouragement.

My heartiest thanks are also due to my friends Chi S. P.Kute, Shri M. F.Kulkarni, Shri C.G.Patwardhan and Shri B.K.Tekale for their useful discussions during the period of present work.

I must put on record my deepest gratitude towards my beloved wife Minal who inspired me and looked after everybody at home to let me devotedly pursue the knowledge of Mathematics.

I would like to record my thanks to the teaching and nonteaching staff of the Department cf Mathematics, Shivaji University, Kolhapur, for their kind cooperation during the period of present investigations.

Finally, I would like to express my thanks to Shri Gosavi, who generously gave his time and produced very neat and clean typing, especially the mathematical format.

Shivaji University, Kolhapur - 416004.


Date: 29th July, 1985

