

A C K N O W L E D G E M E N T

It is my great pleasure to record my sincere gratitude to **Dr. H. V. Kumbhojkar**, Professor, Department of Mathematics, Shivaji University, Kolhapur, for his inspiring guidance and constant encouragement during the preparation of the present dissertation.

I am very much thankful to **Dr. G. G. Asgekar**, Professor and Head, Department of Mathematics, Shivaji University, Kolhapur, for 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 am thankful to my friend **Shri. S. R. Chaudhari** for his useful suggestions and fruitful discussions, which have been of great help to me during the preparation of this dissertation.

I am grateful to the **U. G. C. New Delhi, Rayat Shikshan Sanstha**, Satara and **Principal K. S. Mohite**, K. B. P. Mahavidyalaya, Pandharpur for awarding me a teacher fellowship enabling me to devote whole time and energy to research.

I am very much thankful to my friends **R. L. Sawalajkar, D. M. Karanjkar, P. D. Menkudale, S. B. Bidwe, S. R. Mumbaraddi, L. T. Shinde, K. N. Bagal, D. J. Salunkhe and V. B. Ghute** for their timely help and encouragement.

Words fail me while trying to express my sentiments towards **Principal B. N. Shinde**, my father-in-law, for his sustained encouragement, blessings and affections. I affectionately remember all my family members.

Finally, I acknowledge the important contributions of my wife sou. **Uma** and my daughters **Supriya** and **Sharayu** through their unfailing encouragement and kind patience.

Janardan D. Yadav