ACKNOWLEDGEMENT

The author wishes to place on record his deep sense of gratitude to Prof. T.R. Natesan, Director of Technical Education, Madras for his excellent guidance, constant supervision and enthusiastic moral support throughout the evolution of this thesis.

The author's hearty thanks are always due to Prof. V. Sankaranarayanan, Professor & Head, Computer Centre, Anna University, Madras for his valuable guidance, supervision and illustrative discussions during various stages of his work.

The author wishes to thank the authorities of the Anna University for the facilities provided to carry out this thesis work.

The author is indebted to the staff members of Computer Centre and Institute of Remote Sensing, Anna University for their exhaustive help in various ways. The author expresses his gratitude to Dr. M.K. Ramanujam, Systems Engineer, Indian Institute of Technology, Madras for providing sample LP problems.

The author likes to thank all those who have helped him in one way or the other in carrying out this research work.