ACKNOWLEDGEMENT

I would like to express my deep sense of gratitude and heartfelt appreciation to my research supervisor Dr. B. Stephen Charles, Secretary and Correspondent, Principal of the Stanley Stephen College of Engineering & Technology, Kurnool, Andhra Pradesh, India, for his insightfull guidance, constant encouragement and inspiration during the work. This work might not have been completed without his help,

I am indebted to my co-supervisor Dr. Vinaya Babu, Director of the Admissions, Professor of CSE at Jawaharlal Nehru Technological University, Hyderabad, for his guidance, inspiration, constructive suggestions and support is outstanding.

I am Thankful to Professor D. Narasimha Reddy, Vice-Chancellor, Jawaharlal Nehru Technological University, Hyderabad,

I thankful to Dr. R.S. Janardhana Iyengar, Head of the department of Electronics and Communication, KNS Institute of Technology, Bangalore, for his advice in preparing the thesis.

I thank Prof. Ali Akbar Shamim former Professor, Indian Institute of Science, Bangalore for his kind encouragement and Dr. S.M. Prakash, Principal, KNS Institute of Technology for their encouragement all through in my research work.
I express my sincere appreciation to Mr. Kashyap Dhruve and Mr. Ashutosh Kumar, Directors, Planet-I Technologies, Bangalore for the help rendered in the works of certain computer simulation programs.

I am grateful to all the staff members of CSE department, KNS Institute of Technology, Bangalore, for their cooperation during the preparation of this thesis.

It gives me immense pleasure to show my respect and sincere gratitude to my parents Sri Channabasappa V. Lingareddy and Smt. Girija C. Lingareddy, for their blessings and encouragement.

Towards the end, I thank all those who are directly or indirectly involved in helping me during this research work.

(S.C. Lingareddy)