

ACKNOWLEDGEMENTS

I have great pleasure in expressing my deep sense of indebtedness and gratitude to Dr. M. D. Uplane, Reader, Department of Electronics, Shivaji University, Kolhapur for his expert and valuable guidance and continuous encouragement given to me during the course of work.

I am highly grateful to Prof. S. R. Sawant, Head, Department of Electronics, Shivaji University, Kolhapur for making me available the laboratory facilities and his constant encouragement.

I have been benefited to a great extent by the valuable suggestions and thought provoking discussions with Prof. A. S. Vaingankar, Dr. C. S. Shalgaonkar, Shri. A. B. Kadam, Dr. P. N. Vasambekar, Dr. C. H. Bhosale and Dr. P. S. Patil. I offer my sincere thanks to them.

I am thankful to all administrative, laboratory and work shop staff of the Electronics Department.

Further, I wish to acknowledge the University Grants Commission, Western Region, Pune for awarding me the teacher

fellowship under 9th Five-year plan and Rayat Shikshan Sanstha, Satara for sanctioning the study leave. It is my solemn duty to thank Principal R. S. Shete, S.S.G.M. College, Kopargaon (Ahmednagar) for their continuous encouragement and timely co-operation during the course of my work. I am also thankful to the departmental colleagues from S.S.G.M. College for their co-operation in sharing my work in my absence.

I sincerely appreciate the help rendered by my research colleagues Shri. B. J. Lokhande, Shri. D. S. Mali, Shri. S. R. Kumbhar, Shri. R. S. Patil, Shri. M. S. Chavan, Shri. M. S. Gaikwad, Shri. S. B. Shendge and other friends.

I express my deep sense of love to my parents, and other family members who are the chief source of my inspiration. At the same time, the sense of tolerance and greater patience showed by my wife Mrs. Jyoti and kids Rahul and Yogesh are enormously admirable and is mush beyond to express.

PLACE : Kolhapur

S. A. BELAGE

DATE : 27-06-2002