

Acknowledgements

I wish to record my deep sense of regard and gratitude to Dr S. N. Banerjee, M.Sc., D.Phil., Asstt. Professor of Chemistry, Regional Engineering College, Durgapur, for suggesting the 'problem' and his valuable guidance and advice during the course of this investigation.

I wish to thank the Director, Central Mechanical Engineering Research Institute, Durgapur, for kindly approving the 'problem' as one of the Institute's projects.

I would like to acknowledge the valuable suggestions and helpful discussions of Dr G. J. Gururaja, Scientist of this institute, during the course of writing this thesis.

My sincere thanks are due to Dr A. B. Dutta and Dr S. Das Gupta, both Scientists of this institute, for helping me in computing some of the experimental data.

I would also like to thank my colleagues of the Chemistry section, for their help in many minor but important work and particularly Sri G. N. Adhikari, Scientist, for the fabrication of the Capillary electrometer.

B. R. Guha .
(B. R. Guha)