

PREFACE

This dissertation work comprises of five chapters in which an attempt has been made to present the work carried out on the subject consistent with the development of the topic concerned. Chapter one mainly deals with history of ferrite materials and show theoretical considerations have been utilized to understand them. At the end of this chapter orientation of present work is given. Chapter two is divided into three parts A, B, and C. Part A deals with preparation of ferrites, Part B with x-ray diffraction studies and part C with IR studies. Studies on DC resistivity are presented in chapter three. The magnetization studies and determination of Curie temperature is discussed in chapter four. Results and discussion are given at the end of each chapter. Summary and conclusions are reported in chapter five. Theoretical as well as experimental results are illustrated with appropriate Figures. Abbreviations are used wherever necessary. A list of references is incorporated at the end of each chapter. Only in the case of a few references it was not possible for the author to refer to the original works.

Sudam Mane