

PREFACE

This dissertation work comprises five chapters in which attempt has been made to present the work carried out on the subject consistent with the development of topic concerned. Chapter one mainly deals with ferrite materials and show how theoretical considerations have been utilised to understand them. At the end of this chapter orientation of present work is given. Chapter two is divided into three parts A, B, & C. Part A deals with preparation of ferrites, Part B with X-ray diffraction studies and Part C with the method for determination of Curie temperatures of ferrite samples. Studies on d.c. resistivity are presented in chapter three. The discussion is given at the end. Magnetisation studies are discussed in chapter four. Summary and conclusions are reported in chapter five. The 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 case of few references, it was not possible to refer to original work.