

## 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 the topic concerned. Chapter one deals with ferrite materials and theoretical background of this field. Orientation of the present work has been stated at the end of this chapter. Preparation of ferrites, X-ray diffraction studies and the method for determination of Curie temperatures of ferrite samples have been discussed in chapter two. Studies on D.C. resistivity are presented in Chapter Three. The discussion is given at the end of this chapter. 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. A list of references is given at the end of each chapter. Only in the case of a few references it was not possible to refer to the original work.