

PREFACE

This dissertation work comprises six chapters in which attempt has been made to present the work carried out on the topic concerned. The chapter I contains the introductory discussion on ferrites, their electrical magnetic properties and Neels theory are briefly reviewed. At the end of this chapter orientation of the present work is given. Chapter II is divided into two parts, A & B. In part A the preparation of ferrites and in part B X-ray diffraction studies have been discussed. In chapter III study of d.c. conductivity is presented. In chapter-IV the dielectric behaviour along with variation of resistivity with frequency is discussed. In chapter V Magnetization studies and Curie temperature are presented.

Lastly, in chapter VI summary and conclusion of the work is given. The theoretical as well as experimental results have been illustrated with appropriate figures. A list of references is included at the end of each chapter.