## PREFACE

The subject matter of the present dissertation is divided into Five Chapters. Chapter First is introductory in nature. It deals with the historical development, crystal structure, electrical and magnetic properties and dielectric behaviour of ferrites. The general applications of ferrites, literature survey and orientation of the problem are included in this chapter. The Second Chapter is divided into two sub-sections which deals with preparation and characterization of the samples by XRD respectively. Chapter Third is devoted toe electrical properties. It contains d.c. resistivity and a.c. electrical parameters such as dielectric constant, loss angle and resistivity. The Fourth Chapter is meant for magnetic properties and is divided into two sub-sections viz. Hysteresis and permeability.

The summary of the results and conclusions are given in the Fifth Chapter. A list of references is incorporated at the end of each chapter.

Place: Kolhapur

Date : 12-04-2001

## (Mrs. V. J. Deshmukh)