

## P R E F A C E

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 topics concerned. Chapter one deals with ferrite material and theoretical background of this field. Orientation of the problem has been stated at the end of this Chapter. Characterisation, method for determination of Curie temperatures of the ferrite samples, and cation distribution studies have been discussed in chapter Two. Studies on thermoelectric power are presented in chapter Three. The result and discussion are given at the end of this Chapter. Studies on susceptibility and magnetisation 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.