



Preparation, Characterization and Investigations of Electrical and Magnetic Properties of Some Ferrites

By Sagar Shirsath

GRIN Verlag. Paperback. Book Condition: New. Paperback. 168 pages. Dimensions: 8.3in. x 5.8in. x 0.5in. Doctoral Thesis Dissertation from the year 2010 in the subject Physics - Nuclear Physics, Molecular Physics, Solid State Physics, grade: -, Dr. Babasaheb Ambedkar Marathwada University (-), course: PH. D., language: English, abstract: Wide scope is available to study these aspects of ferrite which at present to our knowledge was not probe by researchers. In relevance to the ever expanding possibilities, and potential that is available with the ferrite materials, the scope of presently undertaken work is designed carefully by selecting suitable ferrite and dopants. A sincere attempt was made to extract fruitful, exhaustive and, systematic information regarding structural, cation distribution, electrical, dielectric and magnetic aspects of the ferrite systems under investigations. In the present study, the properties of nickel ferrites substituted by diamagnetic Zn²⁺, non-magnetic trivalent In³⁺ ions and tetravalent Ce⁴⁺ ions are studied for various compositions. The properties are investigated with a view to understand the effect of divalent, trivalent and tetravalent substitution in nickel ferrite. The thesis consists of five chapters. Chapter 1 related to Scope, problem statement, theory of magnetism, ferrites, background, motivation and aim of the present work, properties of...



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