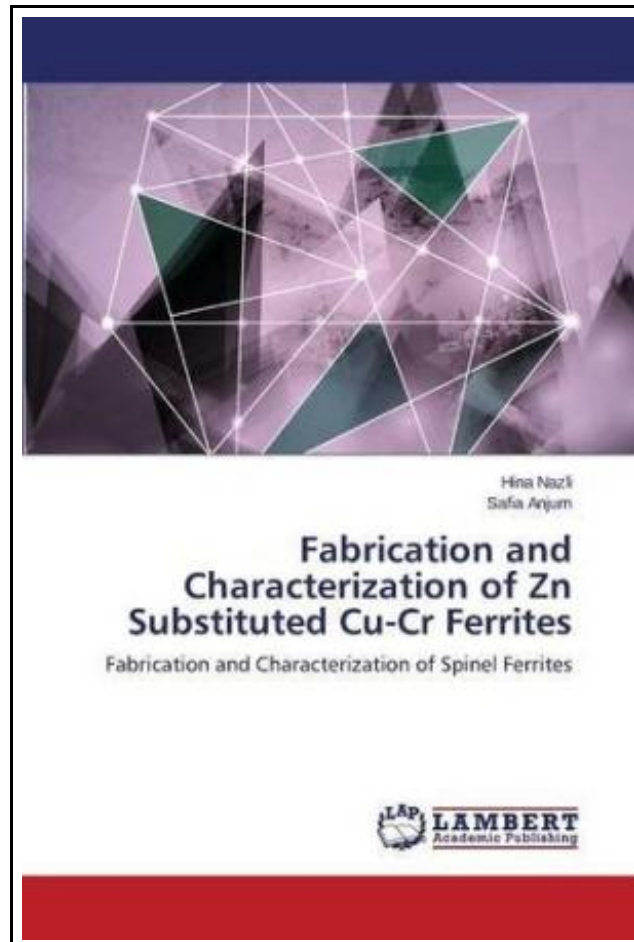


Fabrication and Characterization of Zn Substituted Cu-Cr Ferrites



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LAP Lambert Academic Publishing Dez 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - This research project is aimed to fabricate and characterize zinc substituted copper chromium spinel ferrites of compositional scheme of $Zn_xCu_{1-x}Cr_{0.5}Fe_{1.5}O_4$ (Where $x=0, 0.2, 0.4, 0.6, 0.8$) prepared by powder metallurgical methods using 99.99% commercially available ZnO, CuO, Cr₂O₃ and Fe₂O₃ as starting material. Accurately weigh powder were ball milled and calcined for 24 hours at 1100°C. Then the calcined powders were homogenized using A-gate motor- pestle then sintered at 900°C for 10hours. Thermal, structural, morphological, elemental, magnetic, optical and dielectric properties were carried out using TGA-DTA, XRD, FESEM, EDS, VSM, FTIR and LCR meter respectively. TGA-DTA data provides the optimum temperature for the fabrication of spinel ferrites and later XRD micrographs reveal the formation of single phase spinel structure showing lattice parameters increases and x-ray and bulk density decreases as Zn content increases. FESEM shows the aggregated grain growth. FTIR spectra show two prominent bands in the range of 400-800 cm⁻¹ which confirm the formation of spinel ferrites. The dielectric loss tangent and dielectric constant (e) decreases as frequency increases. 76 pp. Englisch.



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