

A Project Report On
MICROWAVE SYNTHESIS AND
CHARACTERIZATION OF FERRITES

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1. ABSTRACT

In the present study we report the synthesis of Nickel ferrite, Copper ferrite and Lithium ferrites by conventional heating method and microwave heating method. The effectiveness of ferritization by these two methods was studied with the help of the XRD patterns of the synthesized samples. It has been observed that microwave heating produced much better ferrites when compared the conventional heating method. Percentage ferritization was higher and impurities (precursors) were minimum in samples synthesized by microwave heating route.

Keywords: Synthesis, Microwave, Ferrites, Nitrates