

The study of structure and magnetic properties of $\text{Cr}_6\text{Fe}_{18}\text{Mo}_5$ phase compound

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Paper presents results of structure and magnetic properties investigation for phase $\text{Cr}_6\text{Fe}_{18}\text{Mo}_5$ obtained in the isothermal annealing process. Structural and magnetic investigations for prepared samples were conducted using XRD and VSM equipment and using ab initio calculations. X-Ray diffraction patterns were submitted to the Rietveld refinement analysis. From the density functional theory (DFT) calculations, an equilibrium lattice parameters and magnetic properties were obtained.