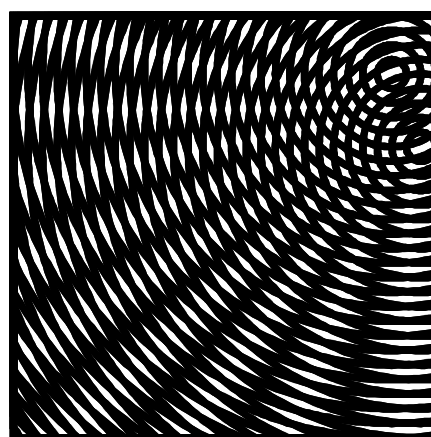


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INFLUENCE OF CONDITIONS FORMATION ON STRUCTURE AND PHYSICAL PROPERTIES OF Gd-Fe AMORPHOUS FILMS

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Magnetic films of Gd-Fe system were explored. Films of $GdFe_2$, $GdFe_5$ and Gd_2Fe_{17} compounds have been gained by thermal evaporation on various substrates under various requirements of evaporation [1]. Examination of structural features of these films is carried out. Temperature dependences of specific electrical resistance and thermo-electromotive force are gained [2]. Influence of annealing on structure and electrophysical properties of films is explored. Complex examination of magnetic properties of amorphous and polycrystalline films is carried out.

Influence of requirements of evaporation on formation of structure of amorphous films, dependence of electrophysical and magnetic properties on a composition and the gained structure is revealed [3].

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