

MAGNETORESISTANCE OF FILMS BASED ON MAGNETIC AND NOBLE METALS AS SENSITIVE SENSOR ELEMENTS

The magnetoresistivity properties of films based on Fe and Pd or Au were studied. It was shown what character of the dependence and the amplitude of magnetoresistance are determined by the phase formation processes: the structural ordering in the films based on Fe and Pd or granulation in the films based on Fe and Au. Since the phase composition of the granules has a wide temperature and concentration stability, these film materials can be used as sensing elements of sensors of various functional appointment.

Primary authors: Prof. PROTSENKO, Ivan (Sumy State University); Mrs SHUMAKOVA , Maryna (Sumy State University); Prof. LARYSA, Odnodvoret (Sumy State University); Dr TKACH, Olena (Sumy State University)

Presenter: Dr TKACH, Olena (Sumy State University)

Track Classification: Physics of Magnetism