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## An impact of the state and type of surface layer on magnetic properties of Cu/Ni and Ni/Cu multilayers

Barbara Gagorowska, Marta Dus-Sitek, Marcin Nabialek

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### Keywords

multilayer systems, antiferromagnetic coupling, ferromagnetic coupling

### Abstract

This paper presents the results of investigation of magnetic properties in Cu/Ni multilayer systems. Based on the investigation of Ni/Cu and Cu/Ni systems with different thickness of magnetic and non-magnetic layers it was proved that the presence of ferromagnetic (F-F) and antiferromagnetic (A-F) exchange couplings depends on the quality of layers in artificial superlattice and on the state and type of free surface, superlattice structure and its roughness.



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