Kostishin, V.G.a, Kostyuk, V.Kh.b, Shipko, M.N.c, Stepovich, M.A.d
Effect of treatment in a corona discharge on the surface properties of iron garnet films

AFFILIATIONS: National University of Science and Technology (MISIS), Moscow, 119049, Russian Federation;
Ivanovo State Power University, Ivanovo, 153003, Russian Federation;
Russian State Trade and Economics University, Ivanovo Branch, Ivanovo, 153025, Russian Federation;
Kaluga State University, Kaluga, 248023, Russian Federation

ABSTRACT: Experimental investigations of the influence of a corona discharge on magnetic properties and domain structure of iron garnet films are conducted. We show that changes in the physical properties of iron garnet films due to a corona discharge result from the injection of negative oxygen ions and the formation of an electret state. © Allerton Press, Inc., 2012.

INDEX KEYWORDS: Corona discharges; Domain structure; Experimental investigations; Iron garnet; Negative oxygen ions, Garnets; Iron; Magnetic properties; Surface properties, Electric corona


CORRESPONDENCE ADDRESS: Kostishin, V.G.; National University of Science and Technology (MISIS), Moscow, 119049, Russian Federation; email: ivrgteu_nir@mail.ru
ISSN: 10628738
DOI: 10.3103/S1062873812050139

LANGUAGE OF ORIGINAL DOCUMENT: English
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus