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## DEMAGNETIZING FIELD IN A LENGTH OF THE ELECTRICAL STEEL SAMPLE CLOSED YOKE AND MAGNETIZED IN A COIL

**ABSTRACT** *In this paper distribution of demagnetizing field of a rectangular sample made of an anisotropic silicon electrical steel was determined analytically. The measuring windings were wound on the sample, which was placed in an homogenous external magnetic field in a coil. The distribution of the magnetic induction was measured and based on it demagnetizing field distribution was calculated.*

**Keywords:** *electrical steel, magnetic induction, tangential component of magnetic field intensity, demagnetizing field*