

Statement of boundary conditions of equation for magnetic fluid including nanoparticles. / K. Kotetishvili, E. Iordanishvili, G. Chikhladze. / Nano Studies. – 2015. – # 11. – pp. 161-162. – eng.

The statement of boundary conditions of the closed system of equations for the magnetic fluid, which includes nanoparticles, has been carried out. It is shown that these conditions are received from Maxwell's equations and that the surface current at two extreme points may be directed oppositely. It is shown as well that the magnetic field outside the area of the magnetic fluid is zero, i.e. it may exist only within the definite area covered by the magnetic fluid. Fig. 1, Ref. 4.

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