

Electromagnetic shield characteristics investigation for the calibration the NMR logging tool

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Abstract

The problem of electromagnetic shielding is relevant due to increasing number of electronic devices that interact with each other. It is known that shield, which is made of high conductivity materials, is widely used for controlling electromagnetic noise. Due to development of NMR logging tool two shielding Faraday cages have been made. The aim of the work was determination the frequency transmittance dependence of shielding in range from 100 kHz to 100 MHz. Transmitting and receiving devices were developed for an experiment. As a result, constructed shields are suitable for tuning and calibration NMR logging tools.

Keywords

Faraday cage, Magnetic shielding room