ON A MONTE CARLO ORIGINAL APPROACH OF INTERFERENCE PROBLEMS

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Abstract. The present paper proposes an original approach of using the Monte Carlo numerical method for electromagnetic interference problems. First, an electrostatic problem of potential and source identification is performed, so as to validate the method. Then an inverse formulation of the power line – underground pipeline interferences is to be evaluated and tested.

Keywords: Monte Carlo method, interference problem, potential and source identification, underground pipelines, power grid.