

BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI
TOMUL LIV (LVIII), FASC. 3, 2008
ELECTROTEHNICĂ, ENERGETICĂ, ELECTRONICĂ

MAGNETIC NEURAL STIMULATOR – GEOMETRY OPTIMIZATION

BY

***C. CURTA, *ANCA-IULIA NICU, *MIHAELA PLESA,
*S. CRISAN and *R. CIUPA**

Abstract. This paper presents the results of a geometrical study for a new type of magnetic stimulator for neural tissue. The authors have simulated in 3D electromagnetic software a suite of magnetic stimulators for neural tissue. Graphics have been plotted to overview the field generated by the stimulators and to best choose the geometry that will produce the most focused field.

Keywords: transcranial magnetic stimulation, coil design, bioelectromagnetism.