

ITE/EIXHMY0

ΣEMINAPIO ΣEMINAPIO

OMIΛΗΤΕΣ: Dr. Johan Sten

VTT Technical Research Centre of Finland, Finland

ΥΠ. ΠΡΟΣΚΛΗΣΗΣ: Καθ. Γ. Δάσσιος, e-mail: dassios@iceht.forth.gr, τηλ.: 2610 997.373

split-ring elements

ΤΟΠΟΣ: Αίθουσα Σεμιναρίων ΙΤΕ/ΕΙΧΗΜΥΘ

ΗΜΕΡΟΜΗΝΙΑ: Τρίτη, 4 Νοεμβρίου 2008

ΩPA: 12:00

ПЕРІЛНЧН: The elementary split ring resonator is a key structure in so-called

"metamaterial" mediums, exhibiting negative material parameters. In the talk I discuss the low-frequency electromagnetic scattering by a split ring particle, modelled as a perfectly conducting wire ring furnished with a narrow gap. Analytical results are given for the electric and magnetic dipole moments for different kinds of incidence and polarisation in the quasi-static approximation. Through the process of homogenisation, the expressions discovered for the dipole moments and the related polarisation dyadics are linked with the macroscopic constitutive

OEMA: Low-frequency electromagnetic scattering and homogenisation of conducting

equations for the medium.

SHORT CV: Born in 1967, in Helsinki, Finland. Diploma Engineer in 1992 (Helsinki

University of Technology), Doctor of Science in Technology 1995 (Helsinki University of Technology), Docent (= Doctor habilis) in 2007

(Helsinki University of Technology).

Οδός Σταδίου, Ρίο, Τ.Θ. 1414, 265 04 Πάτρα Τηλ.: 2610 965 300 & 3, Fax: 2610 990 987

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