The Study of Effective Permittivity and Permeability of Curved Meta-materials

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A new structure of metamaterials which is charactered by curved wires and SRRS, calculate permeability and magnetic permeability of artificial media using Perturbation Theory, simulated effective permittivity and permeability of curved Meta-materials, find which radius of curvature the negative effective permittivity and permeability could appearimple.