نویسندگان:

Jalil Rashed-Mohassel - *School of Electrical & Computer Engineering, , College of Engineering, University of Tehran*

R. Saraei - *Electerical Engineering, Sharif University of Technology*

خلاصه مقاله:

The problem of unbounded uniaxial chiral omega media in the presence of both static electric and magnetic point charges is investigated. For this purpose scalar electric and magnetic potentials in these media are introduced. Using these potentials, the corresponding electric and magnetic fields are determined. The similar problem of static electric and magnetic current sources with the goal of finding the electromagnetic fields is carried out. It is observed that either static electric or magnetic point charges produce both electric and magnetic fields.

کلمات کلیدی:

Anisotropy, Uniaxial, Chiral Omega, Vector Potentials, Chiral Media