

Abstracts

Radiation Characteristics for a Magnetic Line Source in Homogeneous Electron Plasmas (Correspondence)

K.R. Cook. "Radiation Characteristics for a Magnetic Line Source in Homogeneous Electron Plasmas (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.6 (Nov. 1964 [T-MTT]): 617-618.

The radiation characteristic of a magnetic line source in an anisotropic compressible electron plasma was discussed in a recent paper by Seshadri. In Seshadri's paper an excessive amount of effort is devoted to evaluating certain integrals occurring in the Fourier transform solutions of the single-fluid magnetohydrodynamic equations. The following discussion presents a greatly simplified method of evaluating the appropriate integrals describing the "optical" and "plasma" modes of radiation.

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