

Use Of A Spreadsheet Program In Electromagnetics

Yamani, A. Kharab, A.; Dept. of Electr. Eng., King Fahd Univ. of Pet. Miner., Dhahran;
Education, IEEE Transactions on; Publication Date: Aug 2001; Vol: 44, Issue: 3
King Fahd University of Petroleum & Minerals

<http://www.kfupm.edu.sa>

Summary

This paper describes how a spreadsheet program can assist electromagnetics education at the undergraduate level. Spreadsheet software has proven to be an important pedagogical tool for a variety of problems in electrical engineering education. Using the power of the 123 macros, a menu driven spreadsheet program is used to compute the solution of some electrostatic boundary value problems for an introductory-level electromagnetics course. With the on-screen numerical and visual feedback and the ease of entering data, students will be able to take a close look at the effects of varying the input data of the model problems

For pre-prints please write to: abstracts@kfupm.edu.sa