Spreadsheet Solution Of Hyperbolic Partial Differential Equations[For EM Field Calculations]

Kharab, A. Kharab, R.;Dept. of Math., King Fahd Univ. of Pet.Miner., Dhahran;
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King Fahd University of Petroleum & Minerals

http://www.kfupm.edu.sa

Summary

This paper describes the use of spreadsheet programs for the numerical solution of hyperbolic partial differential equations. A complete 123 macro program is presented and applied to obtain the approximate solution of a model problem in electrical engineering. Through user macros, spreadsheets can now function in the same way as programs written in conventional programming languages. They provide a clear and direct means of entering data and formulas. This important feature will allow the students to easily experiment with their model problems

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