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


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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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