

Recent Papers by IBM Authors

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• *Book abstract*

Computer Evaluation of Mathematical Functions, C. T. Fike (IBM Systems Research Institute, New York), 227 pp, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1968. \$10.50.

This book is about the mathematical methods used in preparing computer programs to evaluate functions like e^x , $\sin x$, and $\sqrt{x}$. The book is a textbook at the undergraduate level suitable for use in a university computer science curriculum and is currently used at the IBM Systems Research Institute. Because of the specialized nature of the subject, the book includes a number of topics not ordinarily part of an undergraduate mathematics program, such as continued fractions, Chebyshev series, and asymptotic series. The object is to show how analytical tools such as these can be employed in the preparation of computer function evaluation routines.