Fast Programming on Small Calculators

by William Wheeler, Assoc.; Clinton Bogert, Fort Lee, N.J.,

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Abstract:
A new technique presents a method of rapid programming of engineering formulas on calculators. The method minimizes debugging and documentation time. Formulas are programmed in only one form and any unknown in the equation can be solved. The technique eliminates algebraic manipulation of formulas. It also facilitates solving difficult equations which only yield to methods of successive approximations. Presented here are a flowchart, programs and examples using small, pocket-size, programmable calculators. The method can be adapted to almost all programmables. Using this technique, an equation, such as the Hazen-Williams formula, takes approximately five minutes for programming and documentation.

Subject Headings: Computer programming | Engineering education | Approximation methods

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Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library. And since it's popular, examples (and Jupyter notebooks) are available far and wide. J. J is a very terse array programming language, and is most suited to mathematical and statistical programming, especially when performing operations on matrices. It has also been used in Extreme Programming and network performance analysis. Like the original FP/FL languages, J supports function-level programming (not the same as functional programming) via its tacit programming features. Factor Calculator This program calculates the integer factors of any number. Fast and reliable. Update Removes pointless MirageOS compatibility, which saves space. Prime Factorization 83P A super-fast, super-small prime factorization program. It's the fastest in its "weight class" at 103(?) bytes. Nothing fancy, it just does what it's supposed to. Programmable calculators allow you to write and store programs in the calculator. These programs make certain tedious algebraic calculations automatic and straightforward. They allow you to automate difficult problems by elaborating procedures. The programming capability is mostly seen in graphing calculators though there are many programmable scientific calculators. If you are a technical or engineering student, you'll greatly benefit from a programmable calculator. An excellent programmable calculator will manipulate and store graphic functions input in a symbolic form. In this article, we'll