Errata

Due to an error in the typesetting process, Nathaniel Grossman's article A Solver for f(x) = 0, published in Volume 5, Number 2 of The Journal of Forth Application and Research, is missing the final page of Forth code described in the article. We regret any inconvenience this omission may have caused, and now include the missing code with our apologies to the author and to the subscribers of the Journal.

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\ Scr# 33 Root-bracketing solver
                                                     NG Ø8/13/86
\ guess either the possible root a or possible brackets a and b
\ syntax: a | a b [SOLVING] <function>
: [SOLVING]
            ( a | a b - f[root] root )
                    \ ' is NOT a misprint for [']
    ' IS FUNC
    CR CR ." Searching for root brackets"
    [ROOT]
                    \ bracket a root
   X1 F@ X2 F@
                    \ the initial search interval
   PRE-SOLVER
                    \ search out a root
   FB@ FSWAP
                    \ f[root] root
                                                     NG Ø8/16/86
\ Scr# 34 Call counters
\ #FUNC counts only when <function> is replaced by
\ the word : <function>' 1 #FUNC +! <function> ;
: TOTUP
    CR ." #FUNC = " #FUNC @ .
   CR ." #ITERS = " #ITERS @ .
   CR ." #QUAD = " #QUAD @ .
   CR ." #LIN
                = " #LIN
   CR ." #BIS
               = " #BIS @ .
   CR
\ Scr# 35 References
                                                     NG Ø8/14/86
A. Anderson, M. Tracy, Mastering Forth, Brady, 1984.
R. P. Brent, Algorithms for Minimization without Derivatives,
  Prentice-Hall, 1973.
G. E. Forsythe, M. A. Malcolm, C. B. Moler, Computer Methods for
 Mathematical Computations, Prentice-Hall, 1977.
W. H. Kahan, Personal Calculator Has Key To Solve Any Equation
  f(x) = \emptyset, Hewlett-Packard Journal, 1979.
W. H. Press, B. P. Flannery, S. A. Teukolsky, W. T. Vetterling,
  Numerical Recipes, Cambridge, 1986.
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