

2 Section 1.3

with  $d_1 \neq 0$  and  $m \leq s \leq M$ . If we let  $d$  denote  $\beta/2$ , then a bound on the absolute size of the roundoff error is

$$|f_{\text{round}}(y) - y| \leq (0.d)_\beta \times \beta^{s-k} = \frac{1}{2} \beta^{s-k}.$$

Provided  $y \neq 0$ , given the restriction on  $d_k$ ,

$$|y| = (0.d_1 d_2 \dots)_\beta \times \beta^s \geq (0.1)_\beta \times \beta^s = \beta^{s-1}.$$

Therefore, the relative error in  $f_{\text{round}}(y)$  is bounded by

$$\frac{|f_{\text{round}}(y) - y|}{|y|} \leq \frac{\frac{1}{2} \beta^{s-k}}{\beta^{s-1}} = \frac{1}{2} \beta^{1-k}.$$

3. Show that machine precision is the smallest floating point number,  $\epsilon$ , such that  $f(1 + \epsilon) > 1$ .

First consider the floating point number system  $F(\beta, k, m, M)$  with chopping. The number one is represented by the expansion

$$(0.1 \underbrace{00 \dots 00}_{k-1 \text{ zeroes}})_\beta \times \beta^1.$$

If we let

$$v = u = \beta^{1-k} = (0.1 \underbrace{00 \dots 00}_{k-1 \text{ zeroes}})_\beta \times \beta^{1-k} = (0. \underbrace{00 \dots 00}_{k-2 \text{ zeroes}} 1 \underbrace{00 \dots 00}_{k-1 \text{ zeroes}})_\beta \times \beta^1,$$

then

$$1 + v = (0.1 \underbrace{00 \dots 00}_{k-2 \text{ zeroes}} 1 \underbrace{00 \dots 00}_{k-1 \text{ zeroes}})_\beta \times \beta^1$$

and

$$f(1 + v) = 1.00 \dots 001 > 1.$$

If we assign to  $v$  any value smaller than  $u$ , then the  $k$ th digit in the mantissa of  $1 + v$  is zero and  $f(1 + v) = 1$ . Thus, with chopping, machine precision is the smallest floating point number,  $\epsilon$ , such that  $f(1 + \epsilon) > 1$ .

Now, consider the floating point number system  $F(\beta, k, m, M)$  with rounding. For notational convenience, let  $d$  denote  $\beta/2$ . If we take

$$v = u = \frac{1}{2} \beta^{1-k} = (0.d \underbrace{00 \dots 00}_{k-1 \text{ zeroes}})_\beta \times \beta^{1-k}$$

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He was previously Associate Professor in the Department of Mathematical Sciences at the University of Alabama in Huntsville. Dr. Epperson received his PhD from Carnegie Mellon University in 1980. His research interests include the numerical solution of nonlinear evolution equations via finite element and finite difference methods, including error estimates; the use of kernel functions to solve evolution equations; and numerical methods in mathematical finance. Shed the societal and cultural narratives holding you back and let step by step Numerical Analysis textbook solutions reorient your old paradigms. NOW is the time to make today the first day of the rest of your life. Unlock your Numerical Analysis PDF Profound Dynamic Fulfillment today. YOU are the protagonist of your own life. Let Slader cultivate you that you are meant to be! Please reload the page. Our instant access system ensures immediate delivery as soon as the payment is cleared with absolutely no waiting time This book is ideal for an upper level undergraduate or graduate level introduction to probability for math, science, engineering and business students. It assumes a background in elementary calculus. The text also implements the latest national standards and recommendations regarding geometry for the preparation of high school mathematics teachers—and encourages students to make connections between their college courses and classes they will later teach. It reflects the new qualitative approach that is altering the learning of elementary differential equations, including the wide availability of scientific computing environments like Maple, Mathematica, and MATLAB. Its focus balances the traditional manual methods with the new computer based methods that illuminate qualitative phenomena and make accessible a wider range of more realistic applications.

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