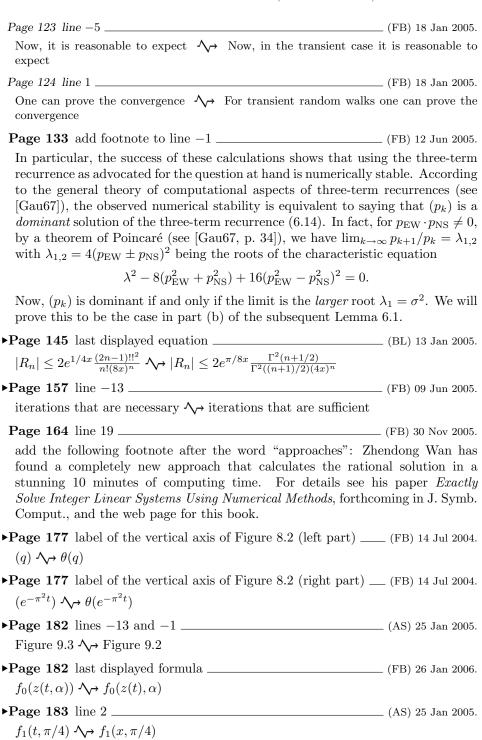
The SIAM 100-Digit Challenge

A Study in High-Accuracy Numerical Computing

First Printing 2004

Errata, Amendments, Improvements — (Last updated 26 January 2006)

Page x line 6	(FB) 18 Jul 2004.
Only digits were required, neither proofs of existence and uniqueness convergence of the method, nor correctness of the result; nevertheless were required, no proofs: not of the existence and uniqueness of the acconvergence of the method, not of the correctness of the result. Never	s $\wedge \rightarrow$ Only digits answer, not of the
Page xi line 10	(FB) 30 Nov 2004.
thanks to John Boersma (1937–2004)	
Page 1 epigram	(SW) 09 Jul 2004.
break line after the word "attack", second line should begin with a caation at the end	apital, no punctu-
Page 19 line −11	(SW) 18 Jun 2005.
next section \rightsquigarrow §1.5	
Page 22 line 7	(FB) 16 Aug 2004.
$(1+I*(1-2*t))) \land \rightarrow (1+I*(1-2*t)))$	
Page 74 line 1 of caption of Figure 3.4	(DL) 06 Sep 2004.
Loci of poles (dashed lines) $\wedge \rightarrow$ Loci of poles (dot-dashed lines)	
Page 74 line 2 of caption of Figure 3.4	(DL) 06 Sep 2004.
The dotted	
Page 85 line 14	(LP) 14 Oct 2004.
$\min_{T \in \mathcal{R}}(f[T]) \rightsquigarrow \min_{T \in \mathcal{R}}(\text{right end of } f[T])$	
Page 85 line 19	(LP) 14 Oct 2004.
$\min_{T \in \mathcal{R}}(f[T]) \rightsquigarrow \min_{T \in \mathcal{R}}(\text{left end of } f[T])$	
Page 86 line 8	(FB) 08 Sep 2004.
$-3.30687_{56}^{49} \searrow -3.30686864747_{56}^{49}$	
Page 92 line -19	(LP) 14 Oct 2004.
has a zero in $[a, b]$. $\five A$ has a zero in $[a, b] = X$. By (a) this zero lies	in $N(X)$, too.
Page 107 line 12	(DL) 14 Jul 2004.
[Rut90, Thms. 7.4 and 7.5] $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	



Page 184 2nd display, 1st line _ $d_n = \frac{f(x_{n+1}) - f(x_n)}{h_n}, \quad \theta_n = \frac{d_n}{2(d_{n-1} - d_n)} \quad \searrow \atop d_{n-1} = \frac{f(x_n) - f(x_{n-1})}{h_{n-1}}, \quad \theta_{n-1} = \frac{d_{n-1}}{2(d_{n-2} - d_{n-1})}$ Page 194 add sentence in line -3 ___ The algorithm that leads *Mathematica* and Maple to this surprise is explained at length in [Mar83]. Page 200 line -2we look at the 10×1 rectangle, the 1×1 rectangle, and the $\sqrt{3} \times 1$ rectangle $\wedge \rightarrow$ we look at, in addition to the parameters given in the contest, the 1×1 and $\sqrt{3} \times 1$ rectangles ▶Page 221 line 1 __ _ (FB) 08 Jul 2004. Page 223 add sentence to footnote 83 __ Interestingly, Driscoll himself did not actually use his own software to solve Problem 10; see his remark quoted on p. 13. **▶Page 231** line −6 _ ▶Page 232 line 4 _ the matrix $\{ \land \searrow \}$ the matrix Φ ▶Page 232 line 18 ___ ____ (DL) 14 Jul 2004. $\phi k, j = \alpha k \beta k, j$, where αk is allowed $\wedge \rightarrow \phi_{k,j} = \alpha_k \beta_{k,j}$, where α_k is allowed ▶Page 233 line −14 __ _____ (DL) 14 Jul 2004. ▶Page 234 line 3 ___ $s_{k,n} = \sum_{i=1}^{k-1} a_i + \frac{1}{1-r} \sum_{i=0}^{n} \left(\frac{r}{1-r}\right)^j \Delta^j b_k \qquad \text{ } \searrow$ $s_{k,n} = \sum_{i=1}^{k} a_i + \frac{r^k}{1-r} \sum_{i=0}^{n-1} \left(\frac{r}{1-r}\right)^j \Delta^j b_{k+1}$ ▶Page 234 line 11 _ $c_{n-1}k^{n-1} \rightsquigarrow c_{m-1}k^{m-1}$ ▶Page 234 line 13 _ $c_n k^n \longrightarrow c_{m-1} k^{m-1}$ ▶Page 234 lines -10 and -11 __ _____ (FB) 06 Nov 2004. $\Delta^k c_1 \xrightarrow{} \Delta^k b_1$