

Errors (third printing, to be fixed in fourth printing)
Iterative Methods for Linear and Nonlinear Equations

C. T. Kelley, September 18, 2010

The 4th printing should take place in late 2001. I must have the corrections in the publisher's hands by March 28. Please send me more errors!

- page 5 line -6, change "an matrix" to "a matrix"
- page 11 line 5, change "iteration some" to "iteration, some"
- page 34 line 10, change "the GMRES iteration" to "the GMRES iteration, with $x_0 = 0$,"
- page 50 Step 1 of Algorithm 3.6.3, change $\rho = \alpha = \omega_0 = 1$ to $\rho = \alpha = \omega = 1$
- page 65 line 7, change "components of f " to "components of F "
- page 69 line 13, should "Lemma 4.3.1. is an" be changed to "Lemma 4.3.1 is an"? (ie is the dot after the 1 supposed to be there?)
- page 72 the period is missing from the last line in the first paragraph in §5.2.
- page 91 In the last line of exercise 5.7.4, "q-factor" should be "q-order".
- page 98 line -5, change "that a choices" to "that choices".
- page 97 line 10, change $K_{\eta} 2 \|F'(x^*)\|$ to $K_{\eta} 2^p \|F'(x^*)\|^p$
- page 100 line following equation 6.10, change " $x_+ = x_c + s$ then" to " $x_+ = x_c + s$, then"
- page 103 line 11, change " $\{\eta_n\}$ but" to " $\{\eta_n\}$, but"
- 105 in equation 6.19, change $\gamma \eta_{n-1}^2 < .1$ to $\gamma \eta_{n-1}^2 \leq .1$
- page 113 line 9, change "cheaper that" to "cheaper than"
- line 10, change "that that" to "than that"
- page 117 line -9, change (η_n, ψ_n) to $(\eta_n^T \psi_n)$
- page 118 line 4, change $\|\psi_n\|_2$ to $\|\psi_n\|_2$
- page 128 line -6, change $c = .999$ to $c = .9999$
- page 132 exercise 7.5.3, change "if B is a nonsingular" to "if A is a nonsingular"
- page 139 line -19, change " $\|F'(x_n)\|^{-1}$ are bounded" to " $\{\|F'(x_n)^{-1}\|\}$ are bounded"
- page 153 I think entry 14 in the bibliography has an error. The journal is "Astron. Astrophys.", not "Astron. Astrophys. Lib."
- page 161 The title of entry 191 in the bibliography is wrong. "nonlinear" should be "nonsymmetric"