R. Seydel: Practical Bifurcation and Stability Analysis. Springer 1994

Corrections and improvements for the 1999 Chinese Reprint

p. 9 (1.2) Definition: last sentence removed

p. 29 Fisher's Model: $u \geq 0$

p. 51 second formula: $...\gamma = 0.4,\ \delta = \frac{1}{25}$

p. 92 CSTR, more digits:

$$\lambda_0 = 0.1300175, \quad T_0 = 8.479958, \text{ and}$$
$$\lambda_0 = 0.2464796, \quad T_0 = 1.186330$$

p. 135 "pseudo arclength" Riks [415] is also quoted.

p. 150 after (5.3) $..., a_1 > a_2,\ a_1$ not eigenvalue,...

p. 151 Exercise 5.1(b) assume further $\beta_1 \neq 0$ and $(j < k \implies \alpha_j \geq \alpha_k)$.

p. 206 Fig. 5.26 caption: $...\beta = 0.4...$

p. 206 eq.(5.68):

$$\begin{pmatrix} \mathbf{f}(\mathbf{y}, \lambda, \gamma) \\ \mathbf{f_y}(y, \lambda, \gamma)\mathbf{h} \\ h_k - 1 \\ \mathbf{g}^{tr}\mathbf{f_y}(y, \delta, \gamma) \\ g_l - 1 \\ \mathbf{g}^{tr}\mathbf{f_{yy}}(y, \lambda, \gamma)\mathbf{hh} \end{pmatrix}$$

p. 220 Figure 6.7 caption: ... for $\gamma = 20, \beta = 0.4$

p. 226 last 3 lines: $\frac{b-a}{2}$ instead of $\frac{a+b}{2}$

p. 242 line 3: For $y \approx y_s$ the linear ...

p. 247 eq.(6.66) $f_1(y(0), \Lambda) = 0$

p. 258 second formula add: $..., \varphi(t; \mathbf{q}) \notin \Omega$ for $0 < t < T_\Omega(\mathbf{q})$

p. 264 Figure 7.11 caption: ... / fold bifurcation

p. 266 last line: ... $\lambda_0 = 7.14547,\ T_0 = 2.88882$

p. 269 Figure 7.14 caption: .../ flip bifurcation

p. 271 bottom: Hopf point at $\lambda_0 = 12.1435$,
$\lambda_1 = 10.5710$
$\lambda_2 = 10.1465$
$\lambda_3 = 10.0912$
$\lambda_4 = 10.0808$

p. 272 replace lines 3,4 by: 0.13
0.188

p. 286 (more hints on period doubling system) $\mathbf{h}(0) + \mathbf{h}(1) = \mathbf{0}$

p. 288 $\lambda_0 = 1.30176,\ T_0 = 6.03555$

p. 316 Figure 8.7: ζ instead of τ

p. 340 (in Exercise 9.7) $\delta = 4.6692016$

p. 378 ref. 147 J. Statistical Phys.

p. 380 ref. 204 Hartman instead of Hartmann
ref. 203 Engelbrecht instead of Englebrecht