"Nostra Culpa, Nostra Maxima Culpa"

Errata
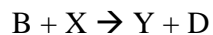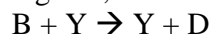
For

An Introduction to Nonlinear Chemical Dynamics

If you find others, please email John Pojman (john@pojman.com)

Chapter 1

Page 11, 1.6 The Brusselator. Equation (1.8). It is not
B + Y → Y + D

B + X → Y + D

Chapter 2

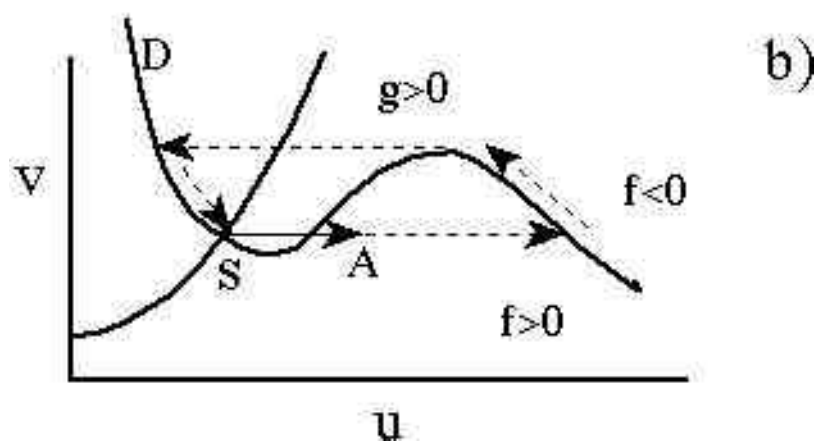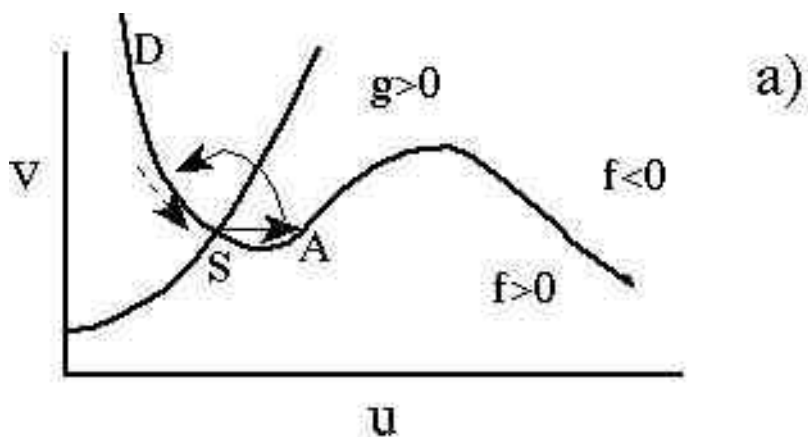Page 40, equation (2.65). It is not $= k4k2$ but

$= k4/k2$.

Chapter 4

Page 69, equation (4.10), the term in the Jacobian matrix is not "k", it
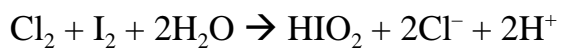"-k".

Page 74, second paragraph, line 10:

"When x falls below x , the system undergoes a rapid transition to **SSII** (segment B of Figure 4.8c), the only state stable when the effective of is **above** ."

Correct version of Figure 4.2

Chapter 5

p. 94, Table 5.2 Reaction M12 should be:

$$Cl_2 + I_2 + 2H_2O \rightarrow HIO_2 + 2Cl^- + 2H^+$$

Chapter 6

p. 115, equation 6.18 should be

$$\frac{\partial C}{\partial t} = D\frac{\partial^2 C}{\partial x^2} + (k_1 + k_2 C)(I_0 - C)h^2 C$$

Chapter 9

p. 202 Corrected eq. 9.12

$$Ra = \frac{\alpha g\ Td^3}{\nu\kappa}$$

where is the negative thermal expansion coefficient and is the kinematic viscosity, or

$$Ra = -\frac{\partial\rho}{\partial T}\frac{g\ Td^3}{\mu\kappa}$$

where μ is the dynamic viscosity and the thermal diffusivity.

p. 202. After (9.13) "where / T is the variation of ths surface tension with temperature."

Chapter 10

p. 220 Epstein (1990). There is no Epstein (1990) in the bibliography. The bibliographic entry on p. 365

Epstein, I. R. 1989. "Differential Delay Equations in Chemical Kinetics: Some Simple Linear Model Systems," *J. Chem. Phys.*, *92,* 1702-1712.

should be:

Epstein, I. R. 1990. "Differential Delay Equations in Chemical Kinetics: Some Simple Linear Model Systems," *J. Chem. Phys.*, *92,* 1702-1712.

May 27, 2001