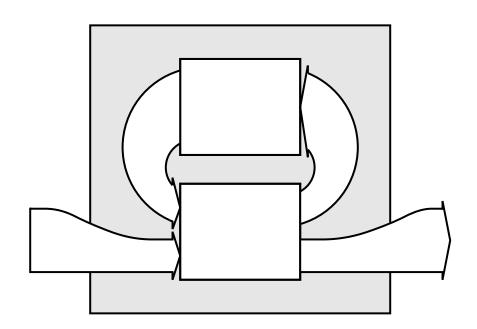
The Essentials of Linear State-Space Systems *Errata*



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An explanation and general mea culpa

One is never finished writing a textbook, but it is possible to reach a point where one can stop. I reached such a point with this book, but without fail I can pick it up and find places where things could have been said more simply, clearly, or occasionally, correctly. I have a list of formatting changes, changes that would add to clarity, and typos that are not included here, but if a particular part of the book should be modified, I'd like to hear from you.

In addition to the above minor changes, there are some *errors*, for which corrections can be made available thanks to the web. These changes are also easy to make in subsequent printings of the book.

Errata, second printing

- **p. 22** The second partial derivative in the second row of partial derivatives should be $\frac{\partial f_4}{\partial x_3}\Big|_{\rho} = g/\ell$
- **p. 59** In Equation (3.4) the index in the rightmost term should be k, not t.
- **p. 183** The line below the first equation should read \dots [S_1 , S_2] gives

Errata, first printing, corrected in later printings

pp. 30–33, The references to Equation (2.4) should be to Equation (2.3).

131, 218

- **5.59** The dummy variable t should be k in (3.4).
- **p. 70** In S_2 the **D** matrix should be $\mathbf{D} = [0, 0]$ (or note the convention about *zero matrices* given later on p. 106).
- **p. 72** In Problem 8 the matrices should be:

$$\mathbf{A} = \begin{bmatrix} 11 & 1 & 0 \\ 7 & 0 & 1 \\ -4 & 0 & 0 \end{bmatrix}, \quad \mathbf{B} = \begin{bmatrix} -2 \\ 3 \\ 1 \end{bmatrix}, \quad \mathbf{C} = [1, 0, 0], \quad \mathbf{D} = 0.$$

p. 83 On the right-hand side of Equation (4.24), x should have a subscript: $a_i x_i(t)$.

p. 59 T

2 Errata

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p. 261	The $(1,3)$ entry $1/C_1$ in the first row of the coefficient matrix should be $-1/C_1$.
p. 262	The caption of Figure S4.1(b) should read, "The second linear circuit with tree."
p. 275	The column matrix in the matrix product in the third line of Problem 9 should be $\begin{bmatrix} \cos \phi \\ \sin \phi \end{bmatrix}$.