In order to improve the book for the well-disposed reader, the authors would like to point a few typographical mistakes:

Page 5, Equation (1.3) Revised on the 09/27/2010
A minus sign has to be added.
Please regard the following expression instead of the equation given in the book:
\[ k_g \triangleq \frac{-1}{c^T A_m^{-1} b} \]

Page 7, Upper Third of the Page Revised on the 12/05/2010
A (\( t \)) has to be added in the Lyapunov function candidate’s derivative.
Please regard the following expression instead of the equation given in the book:
\[ \dot{V}(t) = -x^T(t)Q\dot{x}(t) \leq 0 \]

Page 9, Equation (1.13) Revised on the 12/05/2010
A ‘hat’ has to be added in the equation of the parametric estimate.
Please regard the following expression instead of the equation given in the book:
\[ \dot{\theta}(t) = -\Gamma(x_m(t) - x(t)), \quad \dot{\theta}(0) = \theta_0, \quad \Gamma > 0 \]

Page 19, Figure 2.1 Revised on the 02/01/2019
The signal \( u \) after the block \( C(s) \) should be replaced by \( u_{ad} \).

Page 29, The first Equation of Section 2.1.5 Revised on the 06/20/2012
The vector \( \theta \) should be read as \( \theta = \begin{bmatrix} -4 \\ 4.5 \end{bmatrix} \).

Page 32, Equation (2.29) Revised on the 10/05/2014
A ‘hat’ has to be added in the equation of the output estimate.
Please regard the following expression instead of the equation given in the book:
\[ \hat{y}(t) = \hat{x}(t) \]
Page 33, Upper Half of the Page
Revised on the 12/06/2010
A factor 2 has to be replaced by the factor 1.

Please regard the following expression instead of the equation given in the book:

\[ H_{x_{r}}(s) = H_{y_{r}}(s) = \frac{1}{s + 1} \]  

Page 33, Lower Third of the Page
Revised on the 12/06/2010

\[ H_{y_{r}} \] has to be replaced by \( H_{x_{r}} \) resulting in the sentence:

“However, from the Bode plots of \( H_{w_{r}} \) and \( H_{x_{r}} \), one can see ...”

Page 41, First Equation
Revised on the 04/23/2011

The absolute value of both summands can be considered.

Page 45, Equation (2.61)
Revised on the 04/23/2011

\[ \Gamma_{C} \] has to be replaced by \( \Gamma \).

Page 46, Last line of the page
Revised on the 10/05/2014

\[ -C(s)\bar{y}(s) \] in the last line has to be replaced by \(+C(s)\bar{y}(s)\).

Page 79, First line after figure 2.35
Revised on the 10/05/2014

[0.55.5] has to be replaced by [0.5 5.5].

Page 86, Equation (2.194)
Revised on the 10/05/2014

\[ 4a_{B}^{2} \] term has to be replaced by \( 4\Delta^{2} \).

Page 93, Figure (2.37) and figure (2.39)
Revised on the 10/05/2014

Titles of figure (2.37 b) and figure (2.39 b) after the word without, should add the word “retuning”, i.e., without retuning (dotted).

Page 106, First paragraph
Revised on the 10/30/2012

\[ H(s) = \frac{1}{s^{2} + 1.45s + 1} \] should be replaced with \( H(s) = \frac{1}{s^{2} + 1.45s + 1} \).

Page 128, Third line after equation (3.35)
Revised on the 10/05/2014

\( \dot{a}(t) \) has to be replaced by \( \dot{a}_{ref}(t) \).

Page 129, From line 6 to line 13,
Revised on the 10/05/2014

All \( \|C(s)\|_{L1} \) has to be replaced by \( \|C_{1}(s)\|_{L1} \).

Page 141, Assumption 3.2.1
Revised on the 04/23/2011

\( B_{I} \) has to be replaced with \( B_{I0} \).

Page 160, Assumption 3.3.1
Revised on the 12/16/2010

\( B_{I} \) has to be replaced by \( B_{I0} \) resulting in the sentence:

“There exists \( B_{I0} > 0 \), such that \( \|f_{I}(t,0)\|_{\infty} \leq B_{I0} \) holds for ...”

Page 166, First Equation of the Page
Revised on the 04/23/2011

The \( \tau \) in the very end has to be replaced by a \( \zeta \).

Page 166, Equation (3.154)
Revised on the 04/23/2011

It has to be a \( j \) in the second row of \[ \left[ \sigma_{1}(J_{T_{2}}) \right] \].

Page 167, Lower Half of the Page
Revised on the 02/01/2019

“Next, for all \( lT_{x} + \bar{t} \leq \tau \) ...” the \( \alpha_{4} \) at the end of this line has to be replaced by \( \alpha_{2} \).

Page 167, Lower Half of the Page
Revised on the 04/23/2011

“\( (3.136)-(3.137) \) lead to ...” the \( \alpha_{4} \) in the following equation needs an over-bar.

Page 168, Equation (3.165)
Revised on the 04/23/2011

As a consequence and due to the definition of \( \rho_{U} \): \( \rho_{U} := \rho_{U_{r}} + \gamma_{2} = \rho_{U^{*}} \).

Page 183, Figure 4.1 and Equation (4.20)
Revised on the 12/05/2010

\[ H(s) = \frac{1}{s^{2} + 1.45s + 1} \] should be replaced with \( H(s) = \frac{1}{s^{2} + 1.45s + 1} \).
\(-\ddot{y}(t)\) in the projection operator has to be replaced by \(-mP\ddot{y}(t)\).

Please regard the following expression instead of the equation given in the book:
\[
\dot{\hat{\theta}}(t) = \Gamma \text{Proj}(\hat{\theta}(t), -mP\ddot{y}(t))
\]

Page 292, Before Property B.1
Revised on the 12/05/2010

\[\|\nabla f\|/f\] in the definition of the projection operator has to be replaced by \[\|\nabla f\|\].

Please regard the following expression instead of the equation given in the book:
\[
y - \frac{\nabla f}{\|\nabla f\|} \left( \frac{\nabla f}{\|\nabla f\|} \right)' f(\theta)
\]

Page 294, Equation (B.2) and Following Terms
Revised on the 12/05/2010

\(\dot{k}_x(t), k_x(t), k_x(0)\) have to be replaced by \(\dot{k}_x(t), \bar{k}_x(t), \bar{k}_x(0)\).

Please regard the following expressions instead of the equations given in the book:
\[
\dot{k}_x(t) = \Gamma \text{Proj}(\ddot{k}_x(t), -x(t)e^T(t)Pb), \quad \bar{k}_x(0) = k_{x0}
\]
\[
\dot{V}(t) = -e^T(t)Qe(t) + 2\bar{k}_x^T(t)(\text{Proj}(\ddot{k}_x(t), -x(t)e^T(t)Pb) + x(t)e^T(t)Pb)
\]
\[
\bar{k}_x^T(t)(\text{Proj}(\ddot{k}_x(t), -x(t)e^T(t)Pb) + x(t)e^T(t)Pb) \leq 0
\]

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If you happen to find further typographical mistakes, please write a short note with the subject “Errata – L1 Book” to nhoyakim@illinois.edu.