Errata for The Theory of Differential Equations, Kelley and Peterson, second edition, as of March 25, 2016:

CHAPTER 1

(1) Page 13, line 13: Replace "N" by "K"

(2) Page 18, line 5: Replace "$x(0) = 1$" by "$x(1) = 0$"

CHAPTER 2

(1) Page 62, line 12: Replace "$= \|0\|$" by "$= 0\mu(A)$"

(2) Page 78, line 11-: Omit the last "x"

(3) Page 78, line 9-: Omit the last "x"

(4) Page 78, line 7-: Replace "$+$" by "$=$"

(5) Page 84, line 5: Replace "matrix norm" by "matrix sup norm"

CHAPTER 3

(1) Page 105, line 13: Replace "$\cos^2(t)$" by "$\cos^2 \theta(t)$"

(2) Page 105, line 14: Replace "$\cos^2(t)$" by second "$\cos^2 \theta(t)$"

(3) Page 112, line 3: "$S := \{x \in U : V(x) \le c\}$"

(4) Page 117, line 3: Replace "$\frac{3y}{x}$" by "$-\frac{3y}{x}$"

(5) Page 158, line 9: omit "(3.53)"

(6) Page 158, line 11: Replace "equation" by "equation (3.53)"

(7) page 158, line 13: "(3.53)"

CHAPTER 4

(1) Page 188, line 3: Replace "$\dot{y}$" by "$\dot{x}$"

(2) Page 189, line 20: Replace "a" by "(i)"

CHAPTER 5

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(1) Page 210, line 15: "a real eigenfunction"

(2) Page 225, line 6-: "$[c, b)$"

(3) Page 226, line 5: "$[c, b)$"

(4) Page 226, line 10: "$\int_c^t \frac{1}{p(s)u^2(s)} ds$"

(5) Page 249, line 5-: Replace "$\frac{m}{k}$" by "$\frac{k}{m}$"

(6) Page 250, line 19: Replace "2π" by "$2\pi x(t)$"

(7) Page 279, line 6-: Replace "$x(1)$" by "$x'(1)$"

(8) Page 279, line 5-: Replace "an appropriate variation of constants formula" by "Corollary 5.103"

(9) Page 280, line 7: Replace "continuous" by "positive continuous"

CHAPTER 6

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(1) Page 300, line 9-: omit "$(-1)^{i+1}$".

(2) Page 359, line 3: Replace "$x(t)$" by "$x_m(t)$".

(3) Page 390, line 6: Replace "ω" by "ω_M"

CHAPTER 7

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(1)

CHAPTER 8

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(1) Page 359, line 3: Replace "$x(t)$" by "$x_m(t)$"

(2) Page 390, line 6: Replace "ω" by "ω_M"

(3) Page 398, line 5 "$g'(3) \neq 0$"

Solutions to Selected Problems

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(1) Page 403, line 12: "$(-\frac{1}{2}, \infty)$"

(2) Page 405, line 6-: Replace "$\mu(A)_2$" by "$\mu_2(A)$"