

ERRATA FOR THE SIXTH AND SEVENTH PRINTINGS
as of January 9, 2011

1. Page 41, Exercise 3: $M_{2 \times 3}(F)$ should be $M_{3 \times 2}(F)$.
2. Page 60, line 6 (line after the second display): $P_2(R)$ should be $P_3(R)$.
3. Page 127, Exercise 18: $\mathcal{L}(S, F)$ should be $\mathcal{F}(S, F)$.
4. Page 184, line 9: “zeros above” should be “zeros below” (in second line of item 5).
5. Page 276, Theorem 5.10, items (d) and (e): In each of these items it should be noted that the bases γ_i are disjoint. For example:
In (d) we should insert “then $\gamma_1, \gamma_2, \dots, \gamma_k$ are disjoint and” after “then.”
In (e) we should insert “ $\gamma_1, \gamma_2, \dots, \gamma_k$ are disjoint and” after “such that.”
6. Page 296, line 8 (first display): The inequality $<$ should be \leq .
7. Page 312, line 12: Replace “see Exercise 22” by “This limit exists by Exercise 22 of Section 7.2.”
8. Page 312, Exercise 22: Change “Exercise 21 of Section 7.2” to “Exercise 22 of Section 7.2.”
9. Page 315, line 5: change “ $(a, b, 0, 0) \in \mathbb{R}^4$ ” to “ $(a, b, 0, 0) \in W$.”
10. Page 335, line -1 : Insert “ i ” after 2π in the denominator.
11. Page 343, line -7 : Change “ W_1 ” to “ w_1 .”
- 12.* Page 396, Exercise 29(c): Replace this exercise by “Compute Q and R as in (b) for the 3×3 matrix whose columns are the vectors $(1, 1, 0)$, $(2, 0, 1)$, and $(2, 2, 1)$.”
13. Page 407, line 13 (the end of the final display in the proof of Theorem 6.26): $\sigma_i^2 u_i$ should be $\sigma_i^2 v_i$.
14. Page 428. third line: Theorem 6.32 should be Theorem 6.33.
15. Page 448, Exercise 6, first line: \mathbb{R}^2 should be $\mathbb{R}^2 \times \mathbb{R}^2$.
16. Page 487, lines 3 and 5: The symbol K'_{λ_i} has not been defined. It is intended to denote the generalized eigenspace of T_W corresponding to λ_i . Since it is easily shown that this is actually equal to K_{λ_i} , the symbol K'_{λ_i} will be omitted in future printings where it will be observed that K_{λ_i} is the generalized eigenspace of T_W corresponding to λ_i .
17. Page 491, line -15 (end of the proof of Corollary 1): Change “Theorem 7.4(b)” to “Theorem 7.5(b).”

18. Page 513, Exercise 18: Assume that $F = C$.
19. Page 514, Exercise 19: Assume that $F = C$.
- 20.* Page 583, the answer to Exercise 29(c) of Section 6.5:
- a. Replace P by Q .
 - b. The $(1, 3)$ -entry of Q should be $-\frac{\sqrt{6}}{6}$.
- 21.* Page 585, the answer to Exercise 1(b) of Section 6.10 should be F (false).

* These items are correct in the seventh printing.