Errata for "Geršgorin and His Circles"

Chapter 1:

p.7, two lines below eq (1.14): the superscript "x", in the first item on this line, should be a bold-face x.
p.12 line +13. Read "$\{v_1, v_2, \cdots, v_n\}$" for "$\{v_i, v_2, \cdots, v_n\}$".
p.15, line +8. Read "a_{i_1,i_1}" for "a_{i,i_1}"
p.15, line -7. Read "Fig. 1.6" for "Fig. 1.8".
p.22, line -4. The last exponent "$\frac{i}{p}$" in eq. (1.38) should be "$\frac{1}{p}$".
p.24, line +8. Insert a space between "Theorem" and "on".
p.27, line +7. Insert a comma before "let".
p.28, line +12. Read "(cf.(1.48))" for "(cf.(1.50))".
p.28, line +1 below eq. (1.56). Read "with (1.54)" for "with (1.55)".
p.31, line +6. Read "results" for "result".
p.31, line +8. Read "were those" for "was that".
p.31, line +11. Read "Hadamard's for "Hadamard's.
p.31, line +20. Read "Theorem 1.6" for "Theorem 1.8".
p.31, line +26. Insert a comma after "(1931)".

Chapter 2:

p.36, line -3. Read "Exercise 3" for "Exercise 4".
p.43, line +3 after eq. (2.31). Read "(2.6)," for "(2.6)),".
p.55, line +7 below eq. (2.54). Delete the period after the exclamation point.
p.57, line +3. Read "Brualdi" for "rualdi".
p.60, line -4. Read "$\{\theta_i\}_{i=1}^4$" for "$\{\theta_1\}_{i=1}^4$", i.e., replace the subscript j by i.
p.71, line -13. Insert the word "condition" after the word "sufficient".

Chapter 3:

p.77, line +3. Read "Exercise 4" for "Exercise 3".
p.78, line +2. Replace the period between $\mathcal{B}_{\phi_4}^{r^x}(C_3)$ and $\mathcal{B}_{\phi_5}^{r^y}(C_3)$ by a comma.
p.82, eq. (3.37). Under the second summation sign, replace "$j \neq 1$" by "$j \neq i$".
p.86, line +5 below eq. (3.43). Read "singleton" for "singelton".
p.87, eq. (3.43). Replace the subscript "j" in $r_j^s(A)$ by "i".
p.87, eq. (3.49). Read "$\{r_i(A)\}_{i\in N}$" for "$\{r_j^s(A)\}_{i\in N}$".
p.92, line 2 above eq. (3.60). Read "distinct" for "district".
p.93, line -4. Insert are right brace and comma after "$r_j(A)$", to read "$r_j(A)\}$".

Chapter 4:

p.96, eq.(4.5). Read "$\Gamma^{\mathbb{R}}(A)$" for "$\Gamma^{R}(A)$".
p.104, line +20. Insert a space after "star-shaped".
p.109, caption for Fig. 4.3. Read "Exercise 9" for "Exercise 7".
p.111, line 1 above eq. (4.40). Read "$\Omega(A)$" for "$\Gamma(A)$".
p.111, line -6. Read "of (4.42)" for "above".
p.115, line 1 of Theorem 4.9. Replace ", and assume that" by ". Then,".
p.115, line 2 of Theorem 4.9. Replace ". Then," by "if and only if".
p.115, line 3 below Theorem 4.9. Read "diag$(1, x_2)$" by "diag$[1, x_2]$".
p.117, line +7. Read "(4.45" for "(4.54".
p.125, line +15. Read "Exercise 5" for "Exercise 3".

Chapter 5:

p.135, line. Read "C.1" for "C.2".
p.135, line +20. Insert a period after $\mathbb{G}_n^c$.
p.137, line4 of Theorem 5.12. Replace "ii" by "iii".
p.138, lines -11, -10, -4, and -3. Replace "ii" by "iii".
p.144, Exercise 2. Insert "=" after "matrix A".
p.145, line +3. Read "Carlson and Varga(1973a)" for "Hoffman and Varga (1970)".
p.149, line -16. Remove "Generalized".
p.153, line +11. Replace "with" with "in".
p.153, line -2. Read "Carlson and Varga(1973a)" for "Hoffman and Varga (1970)".

Chapter 6:

p.158, line 2 above Theorem 6.3. Insert a space between "$\Gamma_\pi^\phi(A)$" and "the".
p.159, eq. (6.16), line 2. Read "$r_{i,\pi}^\phi(A) \cdot r_{j,\pi}^\phi(A)\}$" for "$r_{i,\pi}^\phi(A)\}$".
p.159, line1 beneath eq. (6.16). Insert a space between "$K_\pi^\phi(A)$" and "the".
p.161, line 2 below eq. (6.23). Read "$\mathbb{C}^{4\times 4}$" for "$\mathbb{C}^{4,4}$".
p.163, line 3 of Exercise 1. Insert a space between "O" and "if".
p.165, line 3 above eq. (6.31). Replace "then" by "than".
p.167, line 1 below eq. (6.38). Reduce the spacing between "$\mathcal{R}_\pi^\phi(A)$" and ",".
p.168, eq. (6.40). Insert a space between "or" and "$|z-5|$".
p.170, line +3. Read "x's" for "x's".
p.172, line 2 below eq. (6.51). Read "$\ell \times \ell$ matrix $|| \left[||(zI - D_\pi)^{-1}(A - D_\pi)_{j,k}||_\phi \right] ||_\infty$. Then...
p.174, line +10. Read "eigenvalues of A" for "eigenvalues of $\sigma(A)$".
p.175, caption for Fig. 6.4, line 2. Read "of Exercise 7 of Section 6.2".
p.176, line -3. The last subscript, π, should be larger and on the same line as the subscript "k".
p.181, second last line of Exercise 2. Read "$9.6 \cdot z$" for "$9.6z$".
p.182, line 3 above Def. 6.18. Replace "Definition 5.4" by "Definition 5.1".
p.183, last display. Interchange the positions of "$\geq$" and "[".
p.185, line 2 below eq. (6.81). Read "$\sigma_j =$" for "$\sigma_i =$".
p.185, line -6. Replace "subspace" by "subspaces".
p.186, line +9. Read "last two of" for "last of".
p.186, line -17. Read "Exercise 2" for "Exercise 1".
p.202, line 1 of Definition C.3. Read "$a_{i,j}$" for "$a_{i.j}$".

References:

p.217, line -7. Read "[127, 145, 153]" for "[127, 153]".
p.217, line -2. Read "Analysis) 18, 73-80." for "Analysis (to appear)".
p.218, Delete "a" in "(1962a)" of Fiedler, M. and Ptàk, V. (1962a).
p.218, line -5. Delete the final "[145]".
p.220, line -9. Read "Image 32, 2-5." for "Image (to appear)."

Index:

p.224, line +7. Replace "the" by "a" to read "relative to a partition".

Symbol Index:

p.225, Add "$\mathbb{C}_{\pi}^{n\times n}$" partitioned matrix in $\mathbb{C}^{n\times n}$ with nonsingular diagonal blocks, 181.