Misprints in 'Digraphs'

Most of the items below are simple misprints not important for reading the book. Unfortunately, there are some serious misprints as well.

page ix, l. -5: replace 'Bruin' by 'Bruijn'

page 21: Euler's paper has two entries in references.

page 41, Ex. 1.47: 'walk' should be replaced by 'closed walk' (CORRECTED in 2nd printing)

pages 58, l. -4: 'For simplicity let us ...' instead of 'For let us' (CORRECTED in 2nd printing)

page 11, l. -5: 'a $(V(H), V(H))$-path'

page 60, l. 9, 10: t instead of k; 'exist' instead of 'exists'

page 113, Figure 3.9, l. -1: '... maximal but not maximum ...'; 'contains exactly one'

page 115, l. -16: 'be' should be 'is'.

page 119, Figure 3.12: 'from height'

page 121, l. 10: '$2n - 2$ times. The claim follows.'

page 127, l. 13: '$S \subset V$'

page 132, l. 6: 'It is natural to ask how useful this optimality criterion is'

page 134, l. -3: 'path flow of value α'

page 138, l. 9: 'arbitrary'

page 145, l. -4: 'digraph or'

page 146, l. 6, -14: '$BG(D)$ of D'; 'k. Then'

page 148, l. 14: 'which produce'

page 177: Text of Proposition 4.3.1 should be: '.... transitive if and only if each D_i is complete, the digraph H obtained by contracting each strong component to a vertex is transitive and $D = H[D_1, D_2, \ldots, D_p]$, $p = |V(H)|$.'

page 184, l. 2: v rather than u twice.

page 184: Corollary 4.5.2: an 'if' is missing in the first line

page 203, l. -1: 'due to Bang-Jensen'

page 205, l. 3: 'contain as an ....'

page 220, Theorem 4.14.1: Kuratovski $\to$ Kuratowski (CORRECTED in 2nd printing)

page 225, Ex. 4.28: The text should say 'Prove that every strong locally in-semicomplete digraph on at least 3 vertices has a strong orientation'

page 232, l. -13: '1212345656431'

page 241, Corollary 5.6.2: the word 'strong' is missing before 'digraph'

page 246: the two lines $k = 1, 2, ..., n - 1$ should be $1 \leq k < n/2$; in Conjecture 5.6.16 the word 'strong' is missing before 'digraph'

page 259, l. 3: the word 'strong' is missing

page 270, l. -4, -3: should be (a) and (b) instead of (1) and (2)

page 271, l. -8: 'The proof of the complexity ....'

page 278, Theorem 5.12.4: 'A connected arc-locally tournament ...'

page 280, Ex. 5.55: Remove the bracket ($g(x) \leq d_H(x) \leq f(x)$, respectively)

page 333, l. 4 and -3: the words 'strong' are missing

page 335, l. 4: $D^* - C$.

page 336, Theorems 6.11.8 and 6.11.9: $O(n^{t+1})$ should be $O(n^{max3,t})$ (we do not need recursion here, we can just find $pc(H_i), i = 1, 2, \ldots, s$ and a longest cycle of D_0.

page 343, Ex. 6.55: Replace by 'First derive a direct $O(n^3)$ algorithm from the proof of Theorem 6.11.2. Then show ((+) exercise) how to improve this to $O(n^{2.5})$ starting from a $pcc(D)$-path-cycle factor.'

page 353, l. 18, 23: replace D' by D_{ST}; replace (s, t) by (u, v)

page 448, formula (8.12): change $f(x)$ to $f(v)$.

page 449, l. 3: should be v instead of X and should say 'for all $v \in V$'.

page 460, l. 19: '... one to each arc ...'

page 460, l. 14: The family $\mathcal{F}$ should contain $\emptyset$ and V

p 460 after (8.38): extend b by $b(\emptyset) = b(V) = 0$

page 460, l. -7: 'for all W' instead of 'for all U'

page 471, Ex. 8.47: 'k-arc-strong' instead of 'k-strong'

page 476, l. 13, 16: In the definition of out- and in-branchings and arborescence change ≥ 1 to $= 1$.

page 485, l. -4: The vertex z_j (j'th coordinate) always belongs to P_j.

page 501, l. -4 to -1: should be changed to: 'If all problematic sets are contained in $V(F)$, then we take $T = V$. Otherwise, let T be a minimal (with respect to inclusion) problematic set which is not contained in $V(F)$.'

page 527, l. -3: should be 'the fact that it is easy to show that M_1 satisfies the axioms (I1)-(I3) in Section 12.7 and, thus, is a matroid.'

page 539, Ex. 9.9: '... digraphs with weights on the arcs.'

page 551, l. 12, l. -12: index in P_k should be $k + 1$; the set $\{1, 2, \ldots, k\}$ should be $\{1, 2, \ldots, k + 1\}$

page 551, l. -11, -2: 'A colourful path of length k in D'; '$\binom{k+1}{i}$ colourful sets'

page 552, l. -22, -11, -8: 'of length k' should be 'of order k'

page 552, l. -9, -8: n^k should be k^n; 'k-path' should be 'path of order k'

page 554: All appearances of $\delta^0(D)$ should be replaced by $\Delta^0(D)$.

page 660, l. -6: delete 'of a cycle'

page 665: delete para -2, which starts from "There are several"

page 668, lines 4,9: the full stop is missing (CORRECTED in 2nd printing);

page 668: $ext(X)$ has one extra bracket (CORRECTED in 2nd printing)

page 680, Ex. 12.33: 'Is it true that $M = (S, \mathcal{I})$ is a matroid if and only if it satisfies (I1), (I2) and (I3'): All maximal elements of $\mathcal{I}$ have the same size?'

page 698, [345]: PhD thesis $\rightarrow$ Habilitation thesis (CORRECTED in 2nd printing)

page 715, [758]: the journal is wrong, it should be Ars Combinatoria volume 32.