

# Corrections and Errata to: *Algorithmic Graph Theory and Perfect Graphs*, the original 1980 edition

We apologize to Prof. George Lueker for misspelling his family name throughout the text. Hence all occurrences “Leuker” should be “Lueker”.

Page 18: The graph in Figure 1.17 is a circular-arc graph.

Page 48: Exercise 21 is false.

Page 49: Garey and Johnson [1978]: add “MR80g:68056”

Page 78: Bland, et al. [1979]: add “MR80g:05034”

Chvátal, et al. [1979]: add “MR81b:05044”

de Werra [1978]: add “MR81a:05052”

Greenwell [1978]: add “MR80d:05044”

Page 79: Olaru [1977]: add “MR58#5411”

Page 80: Parthasarathy and Ravindra [1979]: add “MR80m:05045”

Pretzel [1979]: add “MR80d:06003”

Tucker [1979]: add “MR81c:05041”

Wagon [1978]: add “MR80i:05078”

Page 85: Figure 4.3: The edge  $(b, e)$  is missing.

Page 102: Exercise 24: The claim in the first sentence is false. For example, it can use as many as 7 colors on the graph  $G_1$ , in Figure 4.1. A different technique can be used to obtain a linear time coloring algorithm for triangulated graphs, which is due to Martin Farber.

Line 21: change “ $Adj(w)$ ” to “ $Adj(u)$ ”

Gavril [1978]: add “MR81g:05094”

Page 104: Wagon [1978]: add “MR80i:05078”

Page 138: The second footnote can be updated since M. Yannakakis has now proved that the complexity of determining if a poset has dimension 3 is NP-complete.

Page 145: Pretzel [1979]: add “MR80d:06003”

Page 146: Gysin [1977]: add “MR58#5393”

Page 147: Rabinovitch [1978b]: add “MR58#5424”

Page 156: Burkard and Hammer [1977]: change to the following:  
[1980] A note on Hamiltonian split graphs, *J. Combin. Theory B* **28**, 245–248. MR81e:05095.

A necessary condition for the existence of a Hamiltonian cycle in split graphs is proved.

Erdos and Gallai [1960]: change “272” to “274”

Foldes and Hammer [1978]: add “MR80c:05111”

Hammer, Ibaraki, and Simeone [1978]: change to the following:  
[1978] Degree sequences of threshold graphs, *Proc. 9th Southeastern Conf. on Combinatorics, Graph Theory and Computing, Congressus Numeratum* **21**, Utilitas Math., Winnipeg, Man., 329–355. MR80j:05088.

Page 163: There should be edges between 3–4 and 6–7 (corrected in this edition).

Page 179: Figure 8.7: The second tree on the right should have its rightmost leaf “F” rather than “E”. The leaves should read from left to right as follows: B C E A D F

Page 190: line 6: change “will appear in Tucker [1979]” to: “appears in Tucker [1980]”

Page 197: line 26: change “Griggs and West [1979]” to: “Griggs and West [1980]”

Abbott and Katchalski [1979]: add “MR80b:05038”

Page 198: Booth and Lueker [1976]: add “MR55#6932”

Page 199: Griggs [1979]: add “MR81h:05083b”

Griggs and West: change to the following:

[1980] Extremal values of the interval number of a graph, *SIAM J. Algebraic Discrete Methods* 1, 1–7. MR81h:05083a.

Page 201: Roberts [1979a]: add “MR81e:05120”

Roberts [1979b]: add “MR81e:05071”

Trotter and Harary [1979]: add “MR81c:05055”

Page 202: Tucker [1979]: change to the following:

[1980] An efficient test for circular-arc graphs, *SIAM J. Comput.* 9, 1–24. MR81a:68074.

Page 203: line 17: add the following:

Vertices  $x$  of weight  $w(x) = 0$  are mapped into the empty interval.

Page 206:  $\omega(T; w)$  should be  $\omega(G; w)$

Page 212: Figure 9.9:

- (1) The nonsuperperfect, interval graph with the chordless 5-cycle should have two chords connecting the top two vertices to the bottom vertex. It will then be the same as the “bull’s head” graph on page 16, (corrected in this edition).
- (2) The noncomparability, nontriangulated comparability graph on 7 vertices has too many edges. The two vertical edges should be removed, (corrected in this edition).
- (3) The nonsuperperfect, interval graph which has 5 triangles, is, in fact, superperfect; it should be moved into the superperfect, non-comparability, interval area of the figure. See also Section 13.9 of the Epilogue to this edition.

Page 234: Golumbic [1978a]: add “MR81e:68080”

Hammer, Ibaraki, and Simeone [1978]: change to the following:

[1978] Degree sequences of threshold graphs, *Proc. 9th Southeastern Conf. on Combinatorics, Graph Theory and Computing, Congressus Numeratum* 21, Utilitas Math., Winnipeg, Man., 329–355. MR80j:05088.

Page 253: Gavril [1973]: change “minimum independent” to “maximum independent”

Page 267: Golumbic [1979]: add “MR81c:05077”

Golumbic and Goss [1978]: add “MR80d:05037”

Ohtsuki, Cheung, and Fujisawa [1976]: add “MR58#5379”

Page 280: Lueker, G. S.: change “25” to “24”

Put name into alphabetical order.