

### Errata for Algebras, Lattices, Varieties Volume III

Many of the errors listed are minor typographical errors which won't be of interest to most readers. More serious errors are indicated with \*\*.

- page ix and 328, Caption to Fig 11.8:** associate  $\rightarrow$  associated
- page 145, Theorem 10.13, line 5.** “Equations 10.1.2 and 10.1.3,” should have parens.
- page 145, Theorem 10.13, Corollary 1 & 2 and Theorem 10.14:** Add ‘ $\qed$ ’ to the end of the statement of each of these.
- page 174, Theorem 10.58, proof line 6:** “... and a function  $f : X \rightarrow \mathbf{D}$ .” The  $\mathbf{D}$  is a set, should not be boldface letter.
- \*\* **page 179, Exercise 10.63.4:** Replace “second description” by “third construction”.
- page 181, Exercise 13:** Fix spacing after “resp.”
- page 181, Exercise 15.** Change to “Let  $\Phi$  be the forgetful ...”
- page 193, Definition 10.83(ii).** Too much space above the display.
- page 194, “Ultraproducts,” line 4:** Change “(See §8.2.)” to “(See §8.2 of Volume II.)”
- page 199, near the beginning of §10.6:** “(Adámek et al., 2011)”  $\rightarrow$  “(J. Adámek, J. Rosický, and E. M. Vitale, 2011)”
- page 202.** Definition 10.95 should come before Corollary 10.93.
- page 202, just before Corollary 10.93.** “in Equations (10.6.1)–(10.6.7)”, should be “in Equations (10.6.1)–(10.6.7)”
- page 211, line -4;** “Garcia and Taylor” – should have a year (1984)
- page 212, line -16:** “,of finite signature,” needs space before o
- \*\* **page 214, line 2, subscript  $\mathbf{V}$ ,** should be script:  $\mathbf{F}_{\mathcal{V}}(nk)$ .
- page 249, Theorem 10.149:** The whole provenance should be inside parentheses and have better spacing. A period should also be added.
- page 252, Exercise 12.** Second line. The square-bracket expression there denotes an interval, and should be preceded by  $\mathbf{I}$ .
- \*\* **page 289, Figure 11.4:** the two bowties should be big join signs. The leftmost item of the figure should read  $[\bigvee \alpha_i, \beta] = \bigvee [\alpha_i, \beta]$ .
- \*\* **page 292, last paragraph:** Change “the centrality relation  $(\alpha, \beta; \delta)$ ” to “the centrality relation  $C(\alpha, \beta; \delta)$ ”.
- page 274, line 12 and 19:** Change “exits” to “exists”
- page 297, line 18:** Change “exits” to “exists”
- \*\* **page 300, line 13:** Change “ $\mathcal{V}$  is congruence semidistributive” to “ $\mathcal{V}$  is congruence meet semidistributive”.
- page 302, line 4, middle:** change “of Volume II.)” to “of Volume II.”

- \*\* page 302, line 8:** Change “Since  $f_i(x, y, x) \approx g_i(x, y, x)$ ” to “Since  $\mathcal{V} \models f_i(x, y, x) \approx g_i(x, y, x)$ ”
- page 302, line 9:** Change “allow” to “allows”
- page 303, line 19:** Replace “vectors” with “tuples”.
- page 303, line -11:** “... to  $\mathbf{A}$  is natural bijection”. Add an “a” before natural.
- page 308, line -11 (in proof of 11.44):** Change “Note the twisting the second column” to “Note the twisting of the second column.”
- page 308, line -2:** Change “inductively.” to “recursively.”
- page 309, four lines above (I),(II),(III):** “there is an direct-up edge.”. Change “an” to “a”.
- page 312:** “labeling” and “labelling” both occur on this page. Change “labelling” to “labeling”
- page 313, Corollary 11.49:** “Let  $\alpha$  and  $\beta$  be congruence on ..” Change “congruence” to “congruences”.
- page 315, line 12:** Change “if  $\mathbf{A}$  affine,” to “if  $\mathbf{A}$  is affine.”.
- page 315, Theorem 11.56:** Add ‘\qed’ to the end of the statement of Theorem 11.56.
- page 356, line 22:** “according the Baker’s Finite Basis Theorem” should be “according to Baker’s Finite Basis Theorem”
- page 357, line 5:** Change the subsection heading to Inherently Nonfinitely Based Finite Bilinear Algebras.
- page 409, refs, P. M. Cohn 1965,** spacing is wrong. This error recurs here and there throughout the references.
- page 424, index: Cayley, Arthur.** get name to occur once only in the index