

Algebra 2 2012

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Note the following errata in the book: [Lau] Niels Lauritzen, “Concrete abstract algebra”, Cambridge University Press, 2003. ISBN: 978-0-521-53410-9.

- Page 118, line -4: The following condition is missing in the definition of maximal ideal: A maximal ideal $I \subset R$ is a proper ideal of R , that is $I \neq R$.
- Page 128, line 16: For “ $(x^{12} + 5y^{12})$ ” read “ $(x'^2 + 5y'^2)$ ”.
- Page 128, line -14 (in Lemma 3.5.5): For “and r a non-zero element” read “and r a non-zero element such that $r \notin R^*$ ”.

- Page 130, line 11: For

$$a = p_1^{r_1} \cdots p_n^{r_n}$$
$$b = p_1^{s_1} \cdots p_n^{s_n}$$

where $r_i, s_i \geq 0$ ” read

$$a = up_1^{r_1} \cdots p_n^{r_n}$$
$$b = vp_1^{s_1} \cdots p_n^{s_n}$$

where $r_i, s_i \geq 0$, u, v are units and p_1, \dots, p_n are pairwise non-associated”.

- Page 144, line-10: For “ $(fg)(3) = f(3)g(0) + f(2)g(1) + f(1)g(2) + f(3)g(0)$ ” read “ $(fg)(3) = f(3)g(0) + f(2)g(1) + f(1)g(2) + f(0)g(3)$ ”.
- Page 162, line 13: For “irreducible” read “reducible”.
- Page 225, definition A.2.5: The following condition is missing in the definition of partition: $S_i \neq \emptyset$, for all $i \in I$.

(line -x means line x counting from the bottom of the page)