Algebra 2 2013
Aalborg University

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 $p_1, \ldots, p_n$ 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)