Algebra 1 2012 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 5, line 9: For " $n = q_2 d+$ " read " $x = q_2 d+$ "
- Page 15, line 7: For "row 1" read "row 2"
- Page 59, line -7: For " $\varphi_1, \varphi_2 \in K$ " read " $\varphi_1, \varphi_2 \in G$ "
- Page 66, line -6: For " $a \equiv a' \pmod{d}$ " read " $a \equiv a' \pmod{n}$ "
- Page 72, line -2: For "If m < 0 and n < 0" read "If n < 0"
- Page 75, line -4: For "{[km] | $0 \le k < N$, gcd(k, N) = 1}" read "{[km] | $0 \le k < d$, gcd(k, d) = 1}"
- Page 77, line -1: For "For $\varphi(x + N\mathbb{Z})$ " read "For $\tilde{\varphi}(x + N\mathbb{Z})$ "
- Page 107, line 13: For " $\mathbb{Z}/3 \times \mathbb{Z}/5\mathbb{Z}$ " read " $\mathbb{Z}/3\mathbb{Z} \times \mathbb{Z}/5\mathbb{Z}$ "
- Page 107, line 15: For " $\mathbb{Z}/2 \times \mathbb{Z}/4\mathbb{Z}$ " read " $\mathbb{Z}/2\mathbb{Z} \times \mathbb{Z}/4\mathbb{Z}$ "
- 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)