

ERRATA: CONCEPTS IN ABSTRACT ALGEBRA by Charles Lanski

CHAPTER 0

- §0.4 p. 27 Add "we" in the sentence before Theorem 0.5: "... complete and we ...".  
§0.6 p. 38 In the line before Fig.0.8 the "s" in  $|f^{-1}(\{s\})| \leq 1$  should be a "t".

CHAPTER 1

- p.57 Eight larger summations ( $\Sigma$ ) in the proof of Theorem 1.8 are needed.  
p.79 Two larger summations ( $\Sigma$ ) in the corollary of Theorem 1.24 are needed.  
p.116 A larger summation ( $\Sigma$ ) in Exercise 1a) is needed.  
§1.4 p.68 In Exercise 3i replace " $p > 3$ " with " $p > 5$ ".  
§1.4 p.69 In Exercise 15 the last "|" should be slanted (a solidus):  $[[n/p^i]/p]$ .  
§1.8 p.90 In Exercise 4b add "is prime" after  $p > 2$ : If  $p > 2$  is prime, ...

CHAPTER 2

- §2.1 p.98 In second line above Example 2.2, "that" should be "then".  
§2.6 p. 119 In the line after Theorem 2.15, "examble" should be "example".

CHAPTER 3

- §3.2 p.132 In the first of Example 3.3 change  $o\langle [2] \rangle$  to  $o([2])$ .  
§3.3 p.133 In Exercise 6 change the first 3 to 1 (For  $m \geq 1$ , prove ...), and also add "when  $m \geq 3$ " after the last "cyclic" at the end of the second line.  
§3.3 p.134 In Definition 3.4 omit "by".  
§3.3 p.135 In Definition 3.5 "length" is misspelled.  
§3.3 p.145 In Exercise 22 "appear" is misspelled.  
§3.4 p.147 In the third line of the new paragraph, "correspond" is misspelled.  
In the fourth line above Theorem 3.18, "and different" should be "are different ...".

CHAPTER 4

- §4.1 p.161 In Exercise 9 at the end, change "for  $H$  in  $G$ ." to "for  $\{H + g \mid g \in G\}$ ."  
§4.2 p.164 In Example 4.8, replace  $[2]_3$  with  $[2]_7$ .  
p.165 In Theorem 4.7, the first " $G$ " should be italic.  
In Corollary, the first "a" is Roman, not ital: "... a prime ..."  
§4.4 p.169 In Exercise 22a change  $2^{96,421}$  to  $3^{96,407}$ .

CHAPTER 5

- §5.1 p.195 In Exercise 5 change "cycle" to "cyclic".  
§5.4 p.210 In the line before Definition 5.4 change " $\leq$ " to " $\geq$ ":  $n \geq 2$ .

CHAPTER 6

- §6.2 p.226 In Exercise 3 change the last  $\cong$  to  $=$  (i.e.:  $\dots(i, n)G_i(i, n) = G_n$ )

CHAPTER 10

- §10.1 p. 325 At the end of the third line from the end of Example 10.2 the double parenthesis should be removed: " $(r_1, \dots r_k) \cdot$ ", not " $((r_1, \dots r_k) \cdot$ ".  
§10.3 p.342 In Exercise 12, remove the "dash" after "Beware": "Beware:  $R$  need ..."  
§10.4 p.351 In Exercise 16, replace " $\text{char } R = 2$ " with " $2R = 0$ "

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CHAPTER 11

§11.1 p.355 The period after the bold "two-sided ideal" near the bottom should not be bold.

CHAPTER 14

§14.1 p.460 The summation in the second line needs to be larger.

CHAPTER 15

§15.4 p.514 In Exercise 8 in the parenthetical expression, the "see" should be "See".

§15.5 p.517 Just above Example 15.23 in the two chains of subgroups of  $\mathbf{Z}_{18}$  each of the  $\langle [1] \rangle$  should be  $\langle [0] \rangle$ .