

## Algebra: An Approach via Module Theory—Errata

- Page 81, line 12: *for all*  $a \in R$  should be *for all*  $a \in A$
- Page 103, exercise 49: add the condition  $z \neq 0$
- Page 104, exercise 57: replace  $f(X)$  by  $f(X) \in R[X]$
- Page 123, line -10:  $\text{Hom}_R(M)$  should be  $\text{Hom}_R(M, M)$
- Page 135, line 14:  $V \cup \{v\}$  should be  $B \cup \{v\}$
- Page 147, line 13:  $b'x$  should be  $b'x_1$
- Page 151, line 15:  $x_2$  should be  $x'_2$
- Page 155, line -7: first occurrence of  $a_3$  should be  $a_2$
- Page 166, line 6:  $Rw_1 \oplus \cdots \oplus Rw_n$  should be  $Rw_1 \oplus \cdots \oplus Rw_n$
- Page 166, line 17:  $Rz_{i_1} \oplus \cdots \oplus Rz_{i_k}$  should be  $Rz_{i_1} \oplus \cdots \oplus Rz_{i_k}$
- Page 172, Corollaries 8.4, 8.5, and 8.6: add the hypothesis that  $M$  is a finite-rank free  $R$ -module
- Page 173, lines -2 and -1: delete these lines
- Page 174, exercise 4: Example 1.5(10) should be Example 1.5(7)
- Page 178, lines 1 and 2: delete these lines
- Page 179, exercise 43:  $R\langle x \rangle$  should be  $Rx$
- Page 219, line -2: *finte* should be *finite*
- Page 228, line -13:  $n$  should be  $m$
- Page 236, line -7:  $v_T$  should be  $V_T$
- Page 240, line -1: Theorem 2.11 should be Theorem 2.13
- Page 241, line 8: delete  $\in F[X]$
- Page 244, line 19:  $\text{co}(T)$  should be  $\text{co}(V_T)$
- Page 244, line 20:  $\text{co}(T_1) \cdots \text{co}(T_t)$  should be  $\text{co}(V_{T_1}) \cdots \text{co}(V_{T_t})$
- Page 245, line 5:  $(X - \lambda_t)^{n_k}$  should be  $(X - \lambda_t)^{n_t}$
- Page 246, line -10:  $c_{T_{\lambda,n}}$  should be  $c_{T_{\lambda,n}}(X)$
- Page 247, line 4:  $(T - \lambda I_V)$  should be  $(T - \lambda 1_V)$
- Page 247, lines 9, 10, 11: all occurrences of  $(T - \lambda)$  should be  $(T - \lambda 1_V)$
- Page 249, line -12:  $(T - \lambda_i)$  should be  $(T - \lambda_i 1_V)$
- Page 250, lines 3 and 193:  $(T - \lambda)$  should be  $(T - \lambda 1_V)$

Page 262, line 10:  $v_2 \in F^3$  should be  $v_3 \in F^3$

Page 505, exercise 18: in the character table of  $S_4$ ,  $\alpha(C_5) = -1$

Page 505, exercise 19: in the character table of  $S_5$ ,  $\tilde{\alpha}_4(C_7) = -1$