Errors

p. ix. 2nd paragraph: replace [68] by [69] and [57] by [56]. [2)]

p. 3. line 6: delete first $\sum$.

p. 10. in (1.6) replace $p_i(a)$ by $p(a)$.

p. 11. **Example 1.1.26**, line 4: exchange a and b (twice). [2)]

p. 19. line -3 and last line: replace “() ” by “$()^o$”. [5)]

p. 23. **Exercise 1.1.11**, line 4: replace “$v_i := X \cdot v_{i-1}$ if $s \nmid i$ and $v_{js} := p^j + (q)$” by “$v_i := X \cdot v_{i-1}$ if $s \nmid (i-1)$ and $v_{js+1} := p^j + (q)$”.

p. 31. In **Corollary 1.2.22** line 1: replace “$|\Omega| 1_K$ is invertible” by “$|\mathcal{O}_1| 1_K, \ldots, |\mathcal{O}_r| 1_K$ are invertible”. [6)]

p. 35. **Exercise 1.2.5**: replace $K[X]/(X \cdot (X - n + 1))$ by $K[X]/(X \cdot (X - n))$. [5)]

p. 35. **Exercise 1.2.7**: replace “Show that G has five orbits on $\Omega \times \Omega$ of lengths”‘ by “Show that the subdegrees of Ω are”. [5)]

p. 38. in (1.12) replace $\mathrm{im}(\varphi)$ by $\mathrm{Im}(\varphi)$. [2)]
Proof of Theorem 1.3.3, line 6: replace $\ker_{V^*}(c)$ by $\ker_{V^\star}(c)$. [2)]

p. 39. line 5: replace V^* by $V^\star$. [2)]
line 6 of the paragraph before **Lemma 1.3.6**: replace $c \in V$ by $c \in A$. [2)]

p. 43. line -12: replace $\ker_V(f(a)$ by $\ker_V(f(a))$. [2)]

p. 45. line -2: delete “w.r.t. increasing dimensions”. [5)]

p. 48. **Exercise 1.3.1**: replace: Let q be a prime power and

$$G := \{ [\alpha_{i,j}] \in \mathrm{SL}_n(\mathbb{F}_q) \mid \alpha_{ij} = \delta_{i,j} \text{ for } i \geq j \}.$$

by: Let $q > 2$ be a prime power and

$$G := \{ [\alpha_{i,j}] \in \mathrm{GL}_n(\mathbb{F}_q) \mid \alpha_{ij} = 0 \text{ for } i > j \}.$$

[5)]

p. 49. in **Hint** to Exercise 1.3.3 replace $m_0(\varphi)$ by $m_0(\varphi) = 1$.

p. 55. last line of the proof of **Corollary 1.5.3**: replace “V/M_m” by “A/M_m”. [6)]

p. 62. in **Exercise 1.5.2**, line 1: Replace first sentence by “Let V be a semisimple A-module with all composition factors being absolutely simple.” [4)]

p. 120. line 18: replace -1 by -2 (i.e. $\chi_7(\mathtt{2a}) = -2$). [1)]

p. 149. **Exercise 2.7.6**, line 1: Replace $\mathbf{Z}(G) = \{1\}$ by "$G = G'$ and $\mathbf{Z}(G) = \{1\}$".

p. 210. **Exercise 3.4.2**, line 2: replace ψ by χ (twice).

p. 236. **Remark 3.6.24**: Delete the third sentence and replace "example" by "non-abelian example" in the last line. Or better: Replace Remark 3.6.24 by
Remark 3.6.24: (a) Let $N \trianglelefteq G$ with $[G : N] = 2$ and suppose that there are no conjugacy classes of N which fuse in G. Unlike in the above example one cannot conclude from this in general that $G \cong N \times \mathrm{C}_2$. The smallest non-abelian example can be found in Exercise 3.7.3.
(b) Similar examples can be constructed taking a finite group N having an outer automorphism α leaving invariant all conjugacy classes of N and putting $G := N \rtimes \langle\alpha\rangle$. See also Exercise 3.6.12 (Additional Material).

p. 251. line 2: replace "exactly" by "at most". 1)

p. 290. **Definition 4.1.2**, line 1: replace "domain" by "domain R". 2)
Proof of **Lemma 4.1.3** line 4: replace α^{j-n} by α^{j-n+1}. 2)

p. 297. line 3: add "If A is an R-order, then (K, R, F, η) is called a p-modular splitting system for A, if K is a splitting field for $K \otimes_R A$ and F is a splitting field for $F \otimes_R A$." 2)

p. 300. lines 3 and 4: replace by "Of course, if KA is semisimple as it will be in our applications, then (4.4) and (4.5) are given by".
line 9 of Proof: replace "p. 76" by "p. 74".

p. 301. **Exercise 4.1.4** (b), line 1: replace $\mathrm{Hom}_{RG}(R\Omega)$ by $\mathrm{End}_{RG}(R\Omega)$.

p. 302. 3rd line of the proof of **Lemma 4.2.2**: replace "$\delta(g_{p'})\ \delta(g_p)$" by "$\delta(g_{p'}),\ \delta(g_p)$". 1)

p. 307. line -3: replace W^* by $W^\star$. 2)

p. 313. **Example 2.1.24**, line 10: replace φ_i by φ_1. 2)

p. 315. in line 2 after **Definition 4.3.1** replace Φ by Φ_φ. 2)

p. 324. in line 12: replace "and hence $\alpha_g \in \mathbb{Z}[\zeta_m]$" by "and hence $\alpha_g \in p\mathbb{Z}[\zeta_m]$" 1)

p. 330. 2nd paragraph, first line: replace "was" by "were". 1)

p. 356. Corollary 4.7.12: replace

$$\nu_p((\theta^G)_B(1)) \begin{array}{ll} > \nu_p(\theta^G(1)) & \text{if} \quad B \neq b^G, \\ = \nu_p(\theta^G(1)) & \text{if} \quad B = b^G. \end{array}$$

by

$$\nu_p((\theta^G)_B(1)) \begin{cases} > \nu_p(\theta^G(1)) & \text{if} \quad B \neq b^G, \\ = \nu_p(\theta^G(1)) & \text{if} \quad B = b^G. \end{cases}$$ [1)]

p. 395. line 2: replace "of trivial" by "of the trivial".

p. 406. last line: delete "if V is a simple FG-module belonging to B".

p. 428. last line of the paragraph following **Conjecture 4.14.4**. Replace the sentence: "In particular they give a proof that the McKay conjecture holds for groups with an abelian Sylow p-subgroup." by the following sentence: "In particular they give a proof that the McKay conjecture holds for all primes for groups with an abelian Sylow 2-subgroup."

p. 429. line -4: replace the reference [117] by a reference to [D. Gluck, T.R. Wolf. Brauer's height conjecture for p-solvable groups, *Trans. Amer. Math. Soc.*, **282**(1): 137–152 (1984)].[1)]

p. 431. line -2: replace the reference [71] by a reference to [I.M. Isaacs, G. Navarro, Weights and Vertices for Characters of π-Separable Groups, *J. Algebra*, **177**(2): 339–366 (1995)]. [3)]

p. 453. in [158] replace Soloman by Solomon.

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2) Thanks to Lukas Maas (Duisburg-Essen).

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