Errata for the 2nd edition of
“The Symmetric Group”

In the list that follows p/l (respectively, p//l) refers to the lth line from the top (respectively, bottom) of page p. Also, \( A \leftarrow B \) means A is to be replaced by B.

ix/3: Edition \( \leftarrow \) Edition
12//15: representation \( \leftarrow \) representation
12//3: \( X(\epsilon) \leftarrow X(\epsilon) \)
16//10: add “for all \( w \in W \)” to the definition of \( W^\perp \)
20/7: \( T \leftarrow A \)
21/3: \( H \leftarrow H \)
35/1–2: This is only true if the field has characteristic zero or is relatively prime to \(|G|\).
35//1: \( A \cong B \leftarrow A = B \)
36//11–12: Replace the first two sentences by “Now suppose \( \chi = \psi \) so we can take \( A = B \).”
37/9: orthogonality relations \( \leftarrow \) “orthogonality relations” with respect to the bilinear form \( \langle \cdot, \cdot \rangle' \).
39/6: 13 \( \leftarrow \) 15
50/8: The proof given in the exercise is only valid if the field has characteristic zero or is relatively prime to \(|G|\).
51//4: One does not need to use the fact that \( C_n \) is normal in \( D_n \).
64/1: linearity by conjugate linearity \( \leftarrow \) conjugate linearity by linearity
64//1: add “or 0” at the end of the last sentence
65/3–4: dominance lemma \( \leftarrow \) Dominance Lemma
65/5–6: Replace this sentence by “If \( \lambda = \mu \), suppose first that two elements in the same row of \( s \) are also in the same column of \( t \). Then, by part 4 of the Sign Lemma, \( \kappa^t_s \{s\} = 0 \). If no such pair of elements exist then, by the same argument which established the Dominance Lemma, \( \{s\} = \pi \{t\} \) for some \( \pi \in C_t \).”
65/9: \( \{s_i\} \) should be all boldface
65/19: exits \( \leftarrow \) exist
65/10: \( \sum_i \pm c_i e_i \leftarrow \sum_i d_i e_i \) where \( d_i = \pm c_i \) or 0
65//2: \( \{s_i\} \) should be all boldface
66//16: The sum should be over \( \lambda \geq \mu \)
69/10: \( (k,l) \{s\} \) has fewer inversions than \( \{s\} \leftarrow (k,l)s \) has fewer inversions than \( s \)
70/13: is is \( \leftarrow \) is
70//11: \( e_{\pi t} \leftarrow (\text{sgn} \ \pi)e_{\pi t} \)
73//7: \[ \pi t \] \( \triangleright \) \[ t \] \( \leftarrow \) \[ \pi t \] \( \triangleright \) \[ t \]
77//11: \( \{t_i\} \leftarrow \{t_i^\dagger\} \)
79/5: Here and in the rest of this section \( \mathbb{C}[T_{\lambda\mu}] \) should be \( \mathbb{C}T_{\lambda\mu} \)
81/6: cyclicity \( \leftarrow \) cyclicity of
83//15: \( T_{\lambda\mu} \leftarrow T_{\lambda\mu}^0 \)
84//6–7: \( T_2 \) should be boldface in four places
85/7: In “some \( T \) appearing” the \( T \) should be boldface
One can not use an arbitrary ordering of the tableaux. Instead compute the row word $\pi_t$, as defined on page 101, for each tableau $t$ and then order the tableaux by the lexicographic ordering of their row words.

"Case 1: $y = m.$" should be underlined

Subcase 2b: $u \neq v.$" should be underlined

"y ←− c_y"

The first line of $P(\pi)$ should be 1 3 5 6 8

$y \leftarrow c_y$ (the number of rows of $\xi$)-1 ←− the number of rows of $\xi$ below the first row

$\alpha \setminus \alpha \leftarrow \alpha \setminus \alpha_1$

"meet", if ←− "meet", if

In some books these two pages are switched
215/14: subsets $\leftarrow$ nonempty subsets
216/16: These components $\leftarrow$ The components of the subgraph $F$
216//7: that both $\leftarrow$ that
217/17: $v_n, v_1 \in E(T) \leftarrow v_nv_1 \in E(T)$ where $n \geq 3$.
217//15: neighbors $v \leftarrow$ neighbors of $v$
221/4: $(n - k)I \leftarrow (n - 2k)I$
227//12: [Scü 76] $\leftarrow$ [Scü 77]
227//6: Stn $\leftarrow$ Sta

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