

Error Log 'Condensed Matter Field Theory, 2nd edition'

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Chapter 2

- ▷ p49 below (2.16): replace $\langle \mu, \mu' | \hat{\mathcal{O}}_2 | \lambda, \lambda' \rangle \rightarrow \frac{1}{2} (\langle \mu | \otimes \langle \mu' |) | \hat{\mathcal{O}}_2 (| \lambda' \rangle \otimes | \lambda \rangle)$. (I. Gruzberg, Jan. 11).
- ▷ p58, formula for \hat{V}_{ee} above (2.26): replace $a_{j\sigma} a_{j'\sigma'} \rightarrow a_{j'\sigma'} a_{j\sigma}$, (I. Gruzberg, Jan. 11).
- ▷ p60 exercise: replace $\sigma \rightarrow \boldsymbol{\sigma}$ for clarity.
- ▷ p87 (b) remove α from term in square brackets in $(\exp[\dots])$, (I. Gruzberg, Jan. 11).
- ▷ p92–p94, first equation (the one involving \hat{H}_{12}): in all expressions replace $V_{\mathbf{k}} V_{\mathbf{k}'}^* \rightarrow V_{\mathbf{k}'}^* V_{\mathbf{k}}$.
p94 last equation: replace $V_{\mathbf{k}} V_{\mathbf{k}'}^* \rightarrow V_{\mathbf{k}}^* V_{\mathbf{k}'}$ and change $\mathbf{k} \leftrightarrow \mathbf{k}'$ in second term in the sum.
- ▷ p161 biographical box: Grassmanns first name was Günther, not 'Gnther'.

Chapter 3

- ▷ pp136 replace $\hat{S}^x \rightarrow \hat{S}_1, \hat{S}^y \rightarrow \hat{S}_2, \hat{S}^z \rightarrow \hat{S}_3$.

Chapter 4

- ▷ below Eq. (4.43) $\psi = (\psi_-, \psi_+)^T$.
- ▷ last line of p174 change $\psi_+ \leftrightarrow \psi_-$.
- ▷ (3.49) multiply r.h.s. by factor S^{-1} . Two lines below (3.50) remove factor S from r.h.s. then read 'i.e. \mathbf{n} is a unit vector ...'.

Chapter 5

- ▷ p196 below 5.4 '... we have generalized Eq. (5.3) ...'
- ▷ p207 first two formulas: ignore the ','s following the \int -signs.

Chapter 7

- ▷ Figure 7.4 C^- in bottom part of figure must be C^+ .

Chapter 9

- ▷ Heading of section 9.2 should read ' θ -terms', 17.9.10.
- ▷ p496, forget the x in front of the abstract, 17.9.10.