

List of errors in *Condensed Matter Field Theory*, 3rd ed.

CHAPTER 8

p515 Answer part (b): $S[g_s, W] = \frac{2iL^d}{\lambda} \sum_{p,q} p_\mu \text{tr}(\Phi_{\mu,-q} W_p W_{-p+q})$.

CHAPTER 10

p593 Several typos in the EXAMPLE. Inline equation below (10.32) $\Gamma^\theta_\phi = \Gamma^\theta_{\theta\phi} d\theta + \Gamma^\theta_{\phi\phi} d\phi$. The statements at the bottom of the page concerning *torsion* are wrong, a torsion free connection does not have $\Gamma^\phi_{\phi\theta} = 0$ globally on the sphere. The technical definition of torsion is symmetry $\Gamma^\mu_{\nu\rho} = \Gamma^\mu_{\rho\nu}$ in the lower components, as stated on p594. The second inline equation in the second paragraph on p594 should read $\Gamma^\phi_{\theta\phi} = \Gamma^\phi_{\phi\theta} = \cot \theta$.

p657 Undisplayed equation above (11.31): The first exponential under the integral must read $\exp(+\nu t(e^{-i\phi} - 1))$.