Additions and Corrections
to Emended Edition of
Feynman and Hibbs


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Thanks to James Donley, Mark Weitzman, J. Ricardo G. Mendonça, and especially Jean Vaillancourt for uncovering errors.

Page 35, problem 2-6: Be warned that this is a difficult problem now known as the “Feynman Checkerboard” or the “Relativistic Chessboard Model”. See


Page 69, line 6: “...depends what value” should be “...depends on what value”.

Page 77, one line below equation (4.5): “...from 0 to of 1 radian” should be “...from 0 to 1 radian”.

Page 98, equation (5.5): “dy” should be “dx”.

Page 104, one line below equation (5.17): The reference to equation A.7 should be to A.10.

Page 108, equation (5.29): The left-hand side is missing its differential dx. It should be

\[ \int_{-\infty}^{+\infty} K_{\exp}(\tilde{y}, x) K_{\exp}^*(y, x) \, dx. \]

Page 110, line 14: “...sates” should be “...states”.

Page 121, two lines above equation (6.8): “...the variable x” should be “...the variable s”.

1
Page 124, one line below equation (6.12): “...in our convention we are using” should be “...in the convention we are using”.

Page 128, five lines below equation (6.25): “ψ(c)” should be “φ(c)”.

Page 137, four lines below equation (6.47): “contribution” should be “contribute”.

Page 138, third line of problem 6-8: “nuclear change” should be “nuclear charge”.

Page 139, one line below equation (6.56): “nuclear change” should be “nuclear charge”.

Page 144, one line above equation (6.67): The reference to equation 6.10 should be to 6.17.

Page 187, last line of problem 7-12: “−(i/ℏ)(Hg − gH)” should be “−(i/ℏ)(gH − Hg)”.

Page 208, first line: “making us of” should be “making use of”.

Page 213, four lines above bottom: “anything the happens” should be “anything that happens”.

Page 217, two lines below equation (8.84): “normal coordiantes” should be “normal coordinates”.

Page 227, first line: “sheer strain” should be “shear strain”.

Page 228, equation (8.129): at five places, “U₁” should be “U₀”.

Page 231, equation (8.133): the + sign should be a − sign.

Page 233, equation (8.137): “ϕ_m(x_b)” should be “ϕ^*_m(x_b)”.

Page 238, one line above equation (9.12): “...plain wave” should be “...plane wave”.

Page 240, equation (9.25): “A(x(t),t)” should be “A(x(t),t)”.

Page 242, line 2: “S₂” should be “S₃”.

Page 252, two lines below equation (9.67): “...in Sec. 5-1” should be “...at Eq. (6.15)”.


Page 262, three lines below equation (9.98): “resent” should be “present”.

Page 275, first line: “Eq. (10.37)” should be “Eq. (10.36)”.

Page 286, one line below equation (10.71): “kT” should be “ℏω”.

2
Page 319, footnote 8: “Excitation Theory” should be “Perturbation Theory”.

Page 334, second line: “distributional” should be “distribution”.

Page 335, equation (12.52): “dt” should be “dt”.

Page 339, second line: The reference to equation 12.34 should be to 12.35.

Page 354, equations (12.124) AND (12.126):

\[ e^{-n\hbar\omega_0 / kT} / (1 - e^{-\hbar\omega_0 / kT}) \] should be \[ e^{-n\hbar\omega_0 / kT} (1 - e^{-\hbar\omega_0 / kT}) \].