Errata

R. Stock (Ed.), Encyclopedia of Applied High Energy and Particle Physics
3-527-40691-3
Chapter 1: “Quantum Mechanics” by Joachim Burgdörfer and Stefan Rotter

The responsibility for these mistakes lies with the publisher, not with the authors.

For a corrected version of this chapter, please visit
www.wiley-vch.de/publish/en/books/bySubjectPH00/ISBN3-527-40691-3 (“Sample chapter”).

(NB: Equations and sub-headings are counted as one line only, even if they are longer.)

Page 3
Right column, line 1: replace $\nu$ with $v$
Equation 1: replace $\nu$ with $v$
Right column, line 8: replace $\nu$ with $v$
Page 4
Left column, line 15: replace $\nu$ with $v$
Page 15
Left column, line 24: insert an opening angle bracket at the beginning of the line
Page 16
Equation 61, line 3: replace $\psi(t)$ with $\psi_n$
Page 17
Equation 63: replace $e^{\nu t}$ after the equals sign with $e^{\nu t}$
Page 19
Figure 1.5, caption, line 4: replace (1924) with (1981)
Page 20
Equation 75, line 2: insert $x$ to the left of the last closing bracket, but not underneath the root
Page 22
Left column, line 32: replace $\partial z$ with $\partial z$
Equation 83, line 1: replace $\hbar^2$ in the numerator of the last fraction with $\hbar^2$
Page 23
Equation 88, line 1: put a minus between the equals sign and the first fraction
Page 25
Equation 97: replace $(i|V_j + |j)$ in front of the equals sign with $(i|V_j|j)$
Page 26
Equation 100, line 1: replace $w$ in the denominator of the right-hand fraction with $\omega$

Page 27
Right column, line 32: replace $\nu$ with $v$

Page 33
Left column, lines 1/2: replace “it is the phase loss of a matter wave upon reflection” with “it is the phase loss in units of $\hbar = 2\pi \hbar$ of a matter wave upon reflection”
put in an $x$ (times) in front of exp

Equation 125:
Page 34
Equation 127:
Equation 130, line 2: put in an $L$ in front of the opening parenthesis within the square brackets

Page 35
Equation 132, line 3: put in exp in front of the opening square bracket

Page 41
Left column, line 15: replace $\nu$ with $v$
Left column, line 17: replace $\nu$ with $v$

Page 42
Equation 148 replace the whole equation by:
$\sqrt{c^2 p^2 + M^2 c^4} \longrightarrow (c \alpha \cdot p + \beta Mc^2)$
replace “that the square of the operator on the right-hand side satisfies” with “that the square of the linearized operator satisfies”
Equation 149: $c$ after opening parenthesis is not supposed to be bold
Equation 151: $c$ after opening square bracket is not supposed to be bold

Right column, line 7: replace superscript $z$ with superscript $2$
Right column, line 8: replace last superscript $z$ with superscript $2$