ERRATA
(Updated July 16, 2002)

"Realistic Image Synthesis using Photon Mapping"
Henrik Wann Jensen
ISBN: 1-56881-140-7
AK Peters 2001

(lfb= line from bottom; lft=line from top)

Page vi, 14th lft. “mathematicians” should be “mathematician”.

Page vi, 1st lft. “repetoire” should be “repertoire”.

Page 8, Figure 1.5. “Absortion” should be “Absorption”.

Page 16, 6th lfb. remove extra “is”.

Page 16, 5th lfb. exchange “longitude” and “latitude”.

Page 17, Equation 2.14 should be: \( E(x) = \frac{2z \cos \theta}{4\pi T^2} \) (Thanks to Per Christensen)

Page 17, 12th lfb. “denominator” should be “numerator” (Thanks to Koji Nakamur)

Page 20, Equation 2.20, could technically be \( \leq 1 \) rather than \( < 1 \). (Thanks to Piero Foscari)

Page 23, Equation 2.28, \( \rho_\perp \) should be computed as: \( \rho_\perp = \frac{n_1 \cos \theta_1 - n_2 \cos \theta_2}{n_1 \cos \theta_1 + n_2 \cos \theta_2} \) (Thanks to Steve Marschner)

Page 26, 13th lfb. \( w \) should be computed as: \( w = \frac{H-(\vec{n} \cdot \vec{H})}{|H-(\vec{n} \cdot \vec{H})|} \) (Thanks to Colin Withers)

Page 26, Equation 2.35. First term should be: \( Z(t) = \frac{x_1}{\sigma - \xi_1 \sigma + \xi_1} \) (Thanks to Theo Engell-Nielsen)

Page 27, Equation 2.41. First term should be: \( t = \sqrt{x_1^2 + \xi_1^2} \) (Thanks to Morten Lang)

Page 28, Equation 2.45. \( \vec{z} \) should be \( \vec{z}' \) (Thanks to Manfred Ernst)

Page 45, Equation 3.7. \( i = 0 \) should be \( j = 0 \). (Thanks to Takeshi Naemura)

Page 51, 1st lft. “This” should be “The”.

Page 57, Pseudocode in 5.3. The do-loop should be:

\[
\text{do } \{ \\
\quad \text{use rejection sampling to find new photon direction} \\
\quad x = 2\xi_1 - 1 \quad \xi_1 \in [0, 1] \text{ is a random number} \\
\quad y = 2\xi_2 - 1 \quad \xi_2 \in [0, 1] \text{ is a random number} \\
\quad z = 2\xi_3 - 1 \quad \xi_3 \in [0, 1] \text{ is a random number} \\
\} \text{ while } (x^2 + y^2 + z^2 > 1) 
\]

Page 58, 1st lft. “with” should be “will”. (Thanks to Rasmus Tamstorf)

Page 61, 10th lft. “includes” should be “include”. (Thanks to Piero Foscari)

Page 63, “\( \rho_{s,\text{avg}} \)” should be “\( \rho_{s,\text{avg}} \)” and “\( \rho_{d,\text{avg}} \)” should be “\( \rho_{d,\text{avg}} \)” (Thanks to Suzuki Masuo)

Page 69, 6th lfb. remove extra “makes”. (Thanks to Piero Foscari)

Page 71, 7th lfb. Add space between “,” and “it”. (Thanks to Piero Foscari)

Page 77, Equation 7.3. “\( d\vec{z}' \)” should be “\( d\vec{z}'' \)”. (Thanks to Piero Foscari)

Page 79, 1st lfb. “to leak” should be “from leaking”. (Thanks to Piero Foscari)

Page 82, Equation 7.11, add missing factor \( \frac{1}{\pi r^2} \). (Thanks to Jon Frydensbjerg)

Page 107, Caption for Figure 9.9. “Plate VI” should be “Plate VII”. (Thanks to Takeshi Naemura)

Page 117, Equation 10.14. \( \frac{1}{2|g|} \) should be \( \frac{1}{2g} \). (Thanks to Steven Worley)

Page 120, Equation 10.19. \( L_d \) should be \( L_t \). (Thanks to Takeshi Naemura)

Page 124, Equation 10.27. Line 2 is the same as line 1 and can be ignored. (Thanks to Miloslaw Smyk)

Page 140, 6th lfb. “\( \epsilon(x) \)” should be “\( \epsilon_i(x) \)”. (Thanks to Bent Larsen)

Page 140, 4th lfb. Remove extra “is”. (Thanks to Takeshi Naemura)

Page 141, Equation 11.4. “\( \epsilon(x) \)” should be “\( \epsilon_i(x) \)”. (Thanks to Takeshi Naemura)

Page 141, 4th lft. “\( E_0 \)” should be “\( E_i \)”. (Thanks to Takeshi Naemura)

Page 142, Equation 11.8, denominator of last term should be \( \min(d_{j,i}, d_{j,i-1}) \). (Thanks to Wojciech Jarosz)

Page 146, 20th lfb. “makes” should be “make”. (Thanks to Miloslaw Smyk)

Page 146, 3th lft. “Pietrick” should be “Pietrek”. (Thanks to Mr. Ohgi)

Page 146, 3th lfb. “Pietrick” should be “Pietrek”. (Thanks to Mr. Ohgi)

Page 148, 13th lft. “strafied” should be “stratified”. (Thanks to Miloslaw Smyk)

Page 148, 15th lft. “that” should be “than”. (Thanks to Miloslaw Smyk)

Page 150, 3rd lfb. “31.994” should be “31.994”. (Thanks to Takeshi Naemura)

Page 154, Equation A.6, remove extra parentheses. (Thanks to Piero Foscari)
Page 155, 10th line. “N” should be “ΨN”. (me)
Page 155, Equation A.9. “Popt” should be “P_{opt}(x)”. (me)
Page 168, Exchange “glass-cognac” and “glass-air”. (Thanks to Kevin Saffern)
Page 146, Reference [21], “pages 137-45” should be “137-145”. (Thanks to Mr. Ohgii)
Page 162, Source line 328, “<” should be “<=”. (Thanks to Inam Ur-Rahman Malik)
Page 173, Reference 55: “Kryzysztof S. Klimanzezewski” should be “Krzysztof S. Klimaszewski” (Thanks to Miloslaw Smyk)
Page 174, Reference 74: “Sumant” should be “Sumanta”. (Thanks to Miloslaw Smyk)
Caption, Color Plate I: “nooisy’ should be “noisy”. (Thanks to Piero Foscari)
Caption, Color Plate V: “casutic’ should be ”caustic”. (Thanks to Piero Foscari)