ERRATA (Updated June 17, 2004)

"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". (Thanks to Per Christensen) Page vi, 1st lfb. "repetoire" should be "repertoire". (Thanks to Takeshi Naemura) Page 8, Figure 1.5, "Absorbtion" should be "Absorption". (Thanks to Takeshi Naemura) Page 16, 6th lfb. remove extra "is". (Thanks to Piero Foscari) Page 16, 5th lfb. exchange "longitude" and "latitude". (Thanks to Takeshi Naemura) Page 17, Equation 2.14 should be: $E(x) = \frac{\Phi_s \cos \theta}{4\pi r^2}$ (Thanks to Koji Nakamaru) Page 17, 12th lfb. "denominator" should be "numerator" (Thanks to Koji Nakamaru) Page 20, Equation 2.20, could technically be ≤ 1 rather than < 1. Page 21, Equation 2.21, should include $(\vec{n} \cdot \vec{\omega'})$ for each $d\vec{\omega'}$ in integrals (Thanks to Piero Foscari) (Thanks to Sampo Smolander, François Bertel), and Rick Speer Page 21, Equation 2.23, should include $(\vec{n} \cdot \vec{\omega})$ in integral. (Thanks to Sampo Smolander, François Bertel, Thorsten Ottosen and Kevin Beason) Page 21, 11th lfb. $\int_{\Omega} d\vec{\omega} = \pi$ should be $\int_{\Omega} (\vec{n} \cdot \vec{\omega}) d\vec{\omega} = \pi$ (Thanks to François Bertel) Page 22, Equation 2.24 is actually a cosine weighted distribution and not uniform according to the solid (Thanks to Anders Wang Kristensen) Page 23, Equation 2.28, ρ_{\perp} should be computed as: $\rho_{\perp} = \frac{\eta_1 \cos \theta_1 - \eta_2 \cos \theta_2}{\eta_1 \cos \theta_1 + \eta_2 \cos \theta_2}$ (Thanks to Steve Marschner) Page 24, 11th lfb. phenomological should be also Page 24, 11^{th} lfb. phenomological should be phenomenological (Thanks to Kevin Beason) Page 26, 13th lfb. w should be computed as: $w = \vec{T} \cdot \frac{\vec{H} - (\vec{n} \cdot \vec{H})\vec{n}}{|\vec{H} - (\vec{n} \cdot \vec{H})\vec{n}|}$ Page 26, 13th lfb. w should be compared with Page 26, Equation 2.35. First term should be: $Z(t) = \frac{\sigma}{(1+\sigma t^2-t^2)^2}$ (Thanks to Theo Engell-Nielsen) Page 27, Equation 2.37. Should be: $D(t, v, v', w) = \frac{G(v)G(v')Z(t)A(w)}{4\pi vv'} + \frac{1-G(v)G(v')}{\pi}A(w)$ (Thanks to Pascal Mignot and Sampo Smolander) (Thanks to Pascal Mignot and Sampo Smolander) (Thanks to Colin Withers) Page 27, Equation 2.41. First term should be: $t = \sqrt{\frac{\xi_1}{\sigma - \xi_1 \sigma + \xi_1}}$ (Thanks to Morten Lang) Page 28, Equation 2.45. $\vec{\omega}$ should be $\vec{\omega}'$. (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". (Thanks to Piero Foscari) Page 57, Pseudocode in 5.3. The do-loop should be: (Thanks to Colin Withers) do { use rejection sampling to find new photon direction $x = 2\xi_1 - 1$ $\xi_1 \in [0, 1]$ is a random number $y = 2\xi_2 - 1$ $\xi_2 \in [0, 1]$ is a random number $z = 2\xi_3 - 1$ $\xi_3 \in [0, 1]$ is a random number } } while ($x^2 + y^2 + z^2 > 1$) Page 58, 1st lfb. "with" should be "will". (Thanks to Rasmus Tamstorf) Page 61, 10th lft. "includes" should be "include". (Thanks to Piero Foscari) Page 62, Equation 5.3 should use L_n rather than L(Thanks to Piero Foscari) Page 63. " $p_{s,avg}$ " should be " $\rho_{s,avg}$ ", and " $p_{d,avg}$ " should be " $\rho_{d,avg}$ " Page 69, 6th lft. remove extra "makes". (Thanks to Suzuki Masuo) (Thanks to Piero Foscari) Page 70, 9th lft. "acos(dx)" should be "acos(dz)". (Thanks to Stephen Westin) Page 71, 7th lfb. Add space between "," and "it". (Thanks to Piero Foscari) Page 77, Equation 7.1. " Ω " should be " Ω_x ". (Thanks to Thorsten Ottosen and Dennis Kristensen) Page 77, Equation 7.3. " $d\vec{\omega}_i$ " should be " $d\vec{\omega}'$ " (Thanks to Piero Foscari) Page 79, 1st lfb. "to leak" should be "from leaking". (Thanks to Piero Foscari) Page 81, Figure 7.4, line 10, $(2\pi r^2)$ should be (πr^2) . (Thanks to Eugene Lee) Page 82, 3^{rd} lfb. α should be 1.818 and not 0.918. (Thanks to Kevin Beason) Page 82, Equation 7.11, add missing factor $\frac{1}{\pi r^2}$. (Thanks to Jon Frydensbjerg)

$\begin{aligned} & \text{Page 107, Caption for Figure 9.9. "Plate VI" should be "Plate VII". (Thanks to Takeshi Naemura) \\ & \text{Page 115, Equation 10.7, $L_e(x')$ should be $L_e(x', $\vec{\omega})$ (Me) \\ & \text{Page 115, Equation 10.7, $L_e(x')$ should be $L_e(x', $\vec{\omega})$ (Thanks to Steve Marschner) \\ & \text{Page 117, Equation 10.14, $\frac{1}{2lg}$ should be $\frac{1}{2g}$. (Thanks to Steve Morley) \\ & \text{Page 119, Equation 10.18 and 10.19, the last term should read $L_N(x + \Delta xom$\vec{e}ga, om$\vec{e}ga]$ or ather than $L_N(x + \Delta xom$\vec{e}ga, om$\vec{e}ga]$ or $L_N(x)$ or $L_$	Page 97, Equation 9.5-9.9, the domain for the integrals is Ω (i.e. $\Omega_x = \Omega$). Sengupta)	(Thanks to Shubhabrata
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Page 107, Caption for Figure 9.9. "Plate VI" should be "Plate VII'.	
$\begin{aligned} & \text{Page 117, Equation 10.14. } \frac{1}{ g } \text{ should be } \frac{1}{2g}. & (\text{Thanks to Steven Worley}) \\ & \text{Page 119-120, Equation 10.18 and 10.19, the last term should read } L_N(x + \Delta xomēga, omēga) \text{ rather than} \\ & L_N(x + \Delta x, omēga). & (\text{Thanks to Shubhabrata Sengupta}) \\ & \text{Page 120, Equation 10.19. } L_d \text{ should be } L_l. & (\text{Thanks to Takeshi Naemura}) \\ & \text{Page 122, Equation 10.27. Line 2 is the same as line 1 and can be ignored.} & (\text{Thanks to Sameer Agarwal}) \\ & \text{Page 126, Equation 10.30, } f() \text{ should be } p(). & (\text{Thanks to Sameer Agarwal}) \\ & \text{Page 126, Equation 10.30, } f() \text{ should be } p(). & (\text{Thanks to Bent Larsen}) \\ & \text{Page 140, } 6^{\text{th}} \text{ lfb. } "e(x)" \text{ should be } "e_i(x)". & (\text{Thanks to Bent Larsen}) \\ & \text{Page 141, Equation 11.4. } "e(x)" \text{ should be } e_{i_i} \text{ and last term should be } \min(d_{j,i_i}, d_{j,i_{-1}}). & (\text{Thanks to Bent Larsen}) \\ & \text{Page 142, Equation 11.8, } \phi_{k_{-}} \text{ should be } \phi_{i_{-}} \text{ and last term should be } 2\pi i/N & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 146, } 20^{\text{th}} \text{ lfb. "makes" should be } \phi_{i_{-}} \text{ and last term should be } 2\pi i/N & (\text{Thanks to Bent Larsen}) \\ & \text{Page 146, } 20^{\text{th}} \text{ lfb. "makes" should be $ \phi_{i_{-}} \text{ and last term should be } 2\pi i/N & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 146, } 3^{\text{th}} \text{ lft. "Pietriek" should be "make". & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 146, } 3^{\text{th}} \text{ lfb. "makes" should be "make". & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 146, } 3^{\text{th}} \text{ lfb. "strafied" should be "Stratified". & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 150, } 3^{\text{rd}} \text{ lfb. "strafied" should be "Stratified". & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 150, } 3^{\text{rd}} \text{ lfb. "strafied" should be "stratified". & (\text{Thanks to Miloslaw Sungk}) \\ & \text{Page 150, } 3^{\text{rd}} \text{ lfb. "strafied" should be "Stratified". & (\text{Thanks to Ailoslaw Sungk}) \\ & \text{Page 150, } 3^{\text{rd}} \text{ lfb. "names" should be "Stratified". & (\text{Thanks to Faleshi Naemura}) \\ & Thanks to P$, since $\vec{\omega}$ is the direction in
$\begin{aligned} & \text{Page 119-120, Equation 10.18 and 10.19, the last term should read $L_N(x + \Delta x, om \Bar{e}ga)$ rather than L_N		(Thanks to Steve Marschner)
$\begin{aligned} & \text{Page 119-120, Equation 10.18 and 10.19, the last term should read $L_N(x + \Delta x, om \Bar{e}ga)$ rather than L_N	Page 117, Equation 10.14. $\frac{1}{2 q }$ should be $\frac{1}{2q}$.	(Thanks to Steven Worley)
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$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$L_N(x + \Delta x, om \vec{e}ga).$ (Th	anks to Shubhabrata Sengupta)
$\begin{aligned} & \text{Page 125, Equation 10.28, } f(\dots) \text{ should be } p(\dots). & (\text{Thanks to Sameer Agarwal}) \\ & \text{Page 126, Equation 10.30, } f(\dots) \text{ should be } p(\dots). & (\text{Thanks to Sameer Agarwal}) \\ & \text{Page 140, } 6^{\text{th}} \text{ lb. "} \epsilon(x)" \text{ should be "} \epsilon_i(x)". & (\text{Thanks to Bent Larsen}) \\ & \text{Page 140, } 4^{\text{th}} \text{ lb. Remove extra "is".} & (\text{Thanks to Takeshi Naemura}) \\ & \text{Page 141, Equation 11.4. "} \epsilon(x)" \text{ should be "} \epsilon_i(x)". & (\text{Thanks to Bent Larsen}) \\ & \text{Page 142, Equation 11.8, } enominator of last term should be \min(d_{j,i}, d_{j,i-1}). & (\text{Thanks to Bent Larsen}) \\ & \text{Page 142, Equation 11.8, } ehominator of last term should be \min(d_{j,i}, d_{j,i-1}). & (\text{Thanks to Bent Larsen}) \\ & \text{Page 142, Equation 11.8, } e_k \text{ should be } \phi_i \text{ and last term should be } 2\pi i/N \\ & \text{Page 146, } 3^{\text{th}} \text{ lft. "Pietrick" should be "Pietrek".} & (\text{Thanks to Caig Donner}) \\ & \text{Page 146, } 3^{\text{th}} \text{ lft. "Pietrick" should be "Pietrek".} & (\text{Thanks to Micolaw Smyk}) \\ & \text{Page 148, } 13^{\text{th}} \text{ lft. "strafied" should be "Stratified".} & (\text{Thanks to Micolaw Smyk}) \\ & \text{Page 150, } 3^{\text{rd}} \text{ lft. "strafied" should be "statified".} & (\text{Thanks to Piero Foscari}) \\ & \text{Page 155, } 10^{\text{th}} \text{ lft. "stimate" should be "stratified".} & (\text{Thanks to Takeshi Naemura}) \\ & \text{Page 155, } 10^{\text{th}} \text{ lft. "stimate" should be "stratified".} & (\text{Thanks to Micolaw Smyk}) \\ & \text{Page 155, Equation A.6, should be "for foscari}) \\ & \text{Page 155, Equation A.6, should be "\Psi_N". & (Me) \\ & \text{Page 155, Equation A.9. 'P_{opt}" should be "\Psi_{opt}(x)". & (Me) \\ & \text{Page 162, Source line 328, ">" should be \gg e_{opt}(x)". & (Me) \\ & \text{mp->index[parent] = p;} \\ & \text{mp->dist2[parent] = dist2;} \\ & \end{array}$	Page 120, Equation 10.19. L_d should be L_l .	(Thanks to Takeshi Naemura)
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$\begin{array}{llllllllllllllllllllllllllllllllllll$	Page 150, 3 rd lfb. "31.994" should be "31,994".	(Thanks to Takeshi Naemura)
Page 155, 10 th lft. "N" should be " Ψ_N ". (Me) Page 155, Equation A.9. ' P_{opt} " should be " $P_{opt}(x)$ ". (Me) Page 162, Source line 307-308, a false photon can be included. The fix is: (Thanks to Kevin Beason) if (dist2 < np->dist2[parent]) { np->index[parent] = p; np->dist2[parent] = dist2; } Page 162, Source line 328, ">" should be >=. (Thanks to Inam Ur-Rahman Malik and Ugo Erra) Page 163, Source line 375, should be "prev_scale = stored_photons + 1;". (Thanks to Daniel Neilson)		(Thanks to Piero Foscari)
Page 155, Equation A.9. 'P _{opt} " should be "P _{opt} (x)". (Me) Page 162, Source line 307-308, a false photon can be included. The fix is: (Thanks to Kevin Beason) if (dist2 < np->dist2[parent]) { np->index[parent] = p; np->dist2[parent] = dist2; Page 162, Source line 328, ">" should be >=. (Thanks to Inam Ur-Rahman Malik and Ugo Erra) Page 163, Source line 375, should be "prev_scale = stored_photons + 1;". (Thanks to Daniel Neilson)		(Thanks to Piero Foscari)
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Page 163, Source line 375, should be "prev_scale = stored_photons + 1;". (Thanks to Daniel Neilson)	<pre>np->index[parent] = p; np->dist2[parent] = dist2;</pre>	
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	Page 162, Source line 328, ">" should be $>=$. (Thanks to Inam U	r-Rahman Malik and Ugo Erra)
	Page 163, Source line 375, should be "prev_scale = stored_photons + 1;".	(Thanks to Daniel Neilson)
Page 163, Source line 431, remove extra "the" in comment (Thanks to James Bigler)	Page 163, Source line 431, remove extra "the" in comment	(Thanks to James Bigler)
Page 168, Exchange "glass-cognac" and "glass-air". (Thanks to Kevin Suffern)		(Thanks to Kevin Suffern)
Page 170, Reference [14], the year should be 1999 (without any month). (Thanks to Rick Speer)		(Thanks to Rick Speer)
Page 170, Reference [21], "pages 137-45" should be "135-145". (Thanks to Mr. Ohgi and Peter Korsgaard) Page 173 Reference 55: "Kryzsztof S. Klimansezewski" should be "Krzysztof S. Klimaszewski"	Page 170, Reference [21], "pages 137-45" should be "135-145". (Thanks to Page 173, Reference 55: "Kryzsztof S. Klimansezewski" should be "Krzysztof	
	1 age 1.0, received out in planter of minimum selection. Should be miniplated	

	(Thanks to Miloslaw Smyk)
Page 174, Reference 74: "Sumant" should be "Sumanta".	(Thanks to Miloslaw Smyk)
Page 174, Reference 76, add missing parenthesis ')'.	(Thanks to Piero Foscari)
Caption, Color Plate I: "nooisy' should be "noisy".	(Thanks to Piero Foscari)
Caption, Color Plate V: "casutic' should be "caustic".	(Thanks to Piero Foscari)