Corrections to S. A. Prahl, "The Adding-Doubling Method," in *Optical Thermal Response of Laser Irradiated Tissue*, edited by A. J. Welch and M. J. C. van Gemert, Plenum Press, New York, pp. 101–129, 1995.

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Equation 5.40 should read

$$\frac{h(v_i, v_j)}{4\pi} = p(v) = \frac{1}{4\pi}.$$

(5.40)

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Equations 5.54-5.56 should all have simple identity matricies instead of using **E**, and should read

$$\Delta\tau^* = 2\mathbf{GB}(\delta_{ij} + \mathbf{A})^{-1}_{\Delta\tau^*} = 2\mathbf{G} - \delta_{ij}$$

(5.54)

where

$$\mathbf{A} = \left[\frac{1}{v_i}\delta_{ij}\right]\left(\delta_{ij} - \frac{a^*}{2}\mathbf{h}^{++}\mathbf{c}\right)\frac{\Delta\tau^*}{2}$$

$$\mathbf{B} = \frac{a^*}{2}\left[\frac{1}{v_i}\delta_{ij}\right]\mathbf{h}^{+-}\mathbf{c}\frac{\Delta\tau^*}{2}$$

(5.55)

and

$$\mathbf{G} = [\delta_{ij} + \mathbf{A} - \mathbf{B}(\delta_{ij} + \mathbf{A})^{-1}\mathbf{B}]^{-1}\mathbf{c} = [w_i\delta_{ij}]$$

(5.56)

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The last line above equation 5.64 should read "The redistribution function is found using Eq. (5.46),"

Equation 5.64 should read

$$\mathbf{h} = \begin{bmatrix} \mathbf{h}^{--} & \mathbf{h}^{-+} \\ \mathbf{h}^{+-} & \mathbf{h}^{++} \end{bmatrix}$$

(5.64)

$$= \begin{bmatrix} \begin{bmatrix} 1.61 & 1.30 & 0.66 & -0.04 \\ 1.30 & 1.94 & 1.96 & 1.74 \\ 0.66 & 1.96 & 3.16 & 4.24 \\ -0.04 & 1.74 & 4.24 & 6.85 \end{bmatrix} & \begin{bmatrix} \mathbf{1.35} & 0.66 & 0.23 & -0.03 \\ \mathbf{0.66} & \mathbf{0.06} & 0.09 & 0.35 \\ \mathbf{0.23} & \mathbf{0.09} & \mathbf{0.12} & 0.15 \\ \mathbf{-0.03} & \mathbf{0.35} & \mathbf{0.15} & \mathbf{-0.37} \end{bmatrix} \\ \begin{bmatrix} 1.35 & 0.66 & 0.23 & -0.03 \\ 0.66 & 0.06 & 0.09 & 0.35 \\ 0.23 & 0.09 & 0.12 & 0.15 \\ -0.03 & 0.35 & 0.15 & -0.37 \end{bmatrix} & \begin{bmatrix} \mathbf{1.61} & \mathbf{1.30} & \mathbf{0.66} & \mathbf{-0.04} \\ 1.30 & \mathbf{1.94} & \mathbf{1.96} & \mathbf{1.74} \\ 0.66 & 1.96 & \mathbf{3.16} & \mathbf{4.24} \\ -0.04 & 1.74 & 4.24 & \mathbf{6.85} \end{bmatrix} \end{bmatrix}$$

1

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Equation 5.72 should read

$$
= \begin{bmatrix}
0.000 & 0.000 & 0.000 & 0.000 \\
0.000 & 0.000 & 0.000 & 0.000 \\
0.000 & 0.000 & 0.293 & 0.000 \\
0.000 & 0.000 & 0.000 & 0.122
\end{bmatrix}
\tag{5.72}
$$