

Correction

Correction: Pereyra, P. Photonic Transmittance in Metallic and Left Handed Superlattices. *Photonics* 2020, 7, 29

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The author wishes to make the following corrections to this paper [1]. On page 4, there are misprints in Equations (4)–(6) and (8). The incorrect equations are:

$$M_c = \frac{1}{2k_1\mu_2 \cos \theta_1} \begin{pmatrix} \alpha_l & \beta_l \\ \beta_l & \alpha_l \end{pmatrix} \begin{pmatrix} e^{-pd_c+iqd_c} & 0 \\ 0 & e^{pd_c-iqd_c} \end{pmatrix} \frac{1}{2\kappa\mu_1 \cos \psi} \begin{pmatrix} \alpha_l & -\beta_l \\ -\beta_l & \alpha_l \end{pmatrix}, \quad (4)$$

where $p = \rho(\epsilon_R \sin \gamma + \epsilon_I \cos \gamma)$, $\kappa = (q^2 + k_1^2 \sin^2 \theta_i)^{1/2}$ and

$$\begin{pmatrix} \alpha_l & \beta_l \\ \beta_l & \alpha_l \end{pmatrix} = \begin{pmatrix} k_1\mu_2 \cos \psi + \kappa\mu_1 \cos \psi & k_1\mu_2 \cos \psi - \kappa\mu_1 \cos \psi \\ k_1\mu_2 \cos \psi - \kappa\mu_1 \cos \psi & k_1\mu_2 \cos \psi + \kappa\mu_1 \cos \psi \end{pmatrix}. \quad (5)$$

with slab transfer matrix M_c

$$M_c = \begin{pmatrix} \alpha_c & \beta_c \\ \beta_c & \alpha_c \end{pmatrix}. \quad (6)$$

and unit-cell transfer matrix

$$M = \begin{pmatrix} \alpha & \beta \\ \beta & \alpha^* \end{pmatrix} = \begin{pmatrix} e^{ik_1d_a \cos \theta_i} \alpha_c & \beta_c \\ \beta_c & e^{-ik_1d_a \cos \theta_i} \alpha_c \end{pmatrix}. \quad (8)$$

The correct equations are

$$M_c = \frac{1}{2k_1\mu_2 \cos \psi + 2\zeta} \begin{pmatrix} \alpha_l & \beta_l \\ \beta_l^* & \alpha_l^* \end{pmatrix} \begin{pmatrix} e^{i(q+ip)d_c} & 0 \\ 0 & e^{-i(q-ip)d_c} \end{pmatrix} \frac{1}{2\kappa\mu_1 \cos \theta_i} \begin{pmatrix} \alpha_l^* & -\beta_l \\ -\beta_l^* & \alpha_l \end{pmatrix}, \quad (4)$$

where $p = \rho(\epsilon_R \sin \gamma + \epsilon_I \cos \gamma)$, $\kappa = (q^2 + k_1^2 \sin^2 \theta_i)^{1/2}$, $\zeta = k_1\mu_2 \sec \theta_i \tan \psi$ and

$$\begin{aligned} \alpha_l &= k_1\mu_2 \sec \theta_i + \kappa\mu_1 \cos \psi + \zeta + i p \mu_1 \\ \beta_l &= k_1\mu_2 \sec \theta_i - \kappa\mu_1 \cos \psi - \zeta + i p \mu_1. \end{aligned} \quad (5)$$

with slab transfer matrix M_c

$$M_c = \begin{pmatrix} \alpha_c & \beta_c \\ \beta_c^* & \alpha_c^* \end{pmatrix}. \quad (6)$$

and unit-cell transfer matrix

$$M = \begin{pmatrix} \alpha & \beta \\ \beta^* & \alpha^* \end{pmatrix} = \begin{pmatrix} e^{ik_1 d_a \cos \theta_i} \alpha_c & \beta_c \\ \beta_c^* & e^{-ik_1 d_a \cos \theta_i} \alpha_c^* \end{pmatrix}. \quad (8)$$

The author confirms that the numerical calculations reported in the paper were done with the correct expressions, therefore the changes do not affect the results. The author apologizes for the inconveniences caused by these misprints.

Reference

1. Pereyra, P. Photonic Transmittance in Metallic and Left Handed Superlattices. *Photonics* **2020**, *7*, 29. [[CrossRef](#)]

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