Electromagnetic Surface Waves: A Modern Perspective

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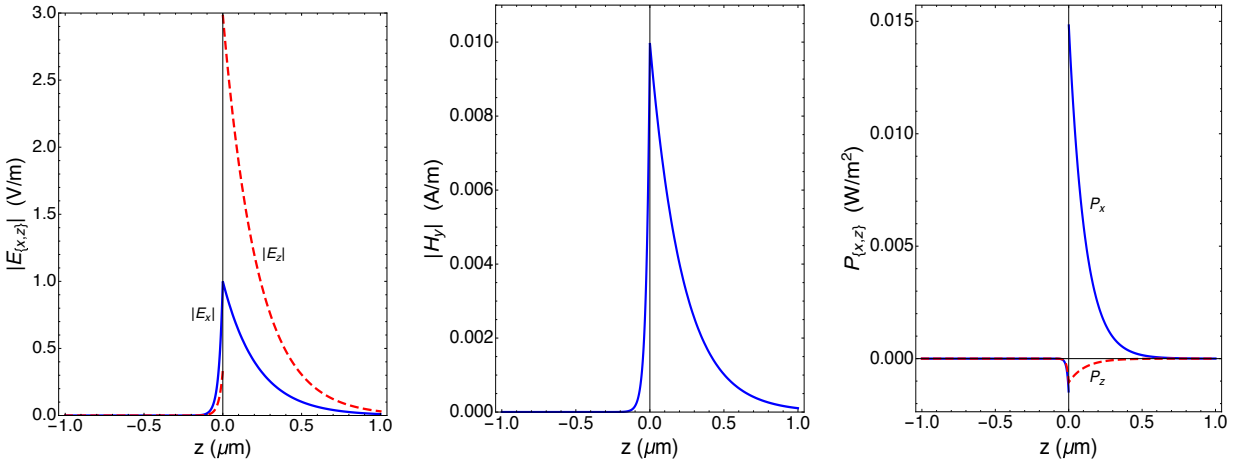
Corrections & updates — 29 March 2017

1. Page 48. Table 2.2 should be:

Metal	n_{met}	Dielectric material	n_{diel}	v_{rel}	Δ_{prop} (μm)	Δ_{met} (nm)	Δ_{diel} (nm)
Aluminum	$0.75+3.9i$	Water	1.33	0.95	3.09	24.36	219.16
		Quartz	1.54	0.93	1.88	23.85	160.60
		Diamond	2.41	0.82	0.34	20.88	58.97
Copper	$0.27+3.4i$	Water	1.33	0.92	4.95	27.29	179.89
		Quartz	1.54	0.89	2.91	26.45	130.18
		Diamond	2.41	0.72	0.39	21.16	42.90
Gold	$0.18+3.4i$	Water	1.33	0.92	7.35	27.28	178.96
		Quartz	1.54	0.89	4.31	26.43	129.40
		Diamond	2.41	0.71	0.57	21.02	42.18
Silver	$0.056+4.3i$	Water	1.33	0.95	52.31	22.28	232.94
		Quartz	1.54	0.93	31.89	21.88	170.59
		Diamond	2.41	0.83	5.81	19.41	61.80

2. Page 49. The graphs in Fig. 2.3 should be:



(a) (b) (c)

3. Page 53. Equations (2.49) holds for $z < 0$ (not $z > 0$ as stated). That is, these equations should be:

$$\left.\begin{aligned} \underline{E}_{\text{inc}}(\underline{r}) &= a_{\text{p}} \left(-\underline{u}_{\text{prop}} \cos\theta_{\text{inc}} + \underline{u}_{\text{z}} \sin\theta_{\text{inc}}\right) \\ &\quad \times \exp\left\{ik_0 n_0 \left[\underline{u}_{\text{prop}} \bullet \underline{r} \sin\theta_{\text{inc}} + z \cos\theta_{\text{inc}}\right]\right\} \\ \underline{H}_{\text{inc}}(\underline{r}) &= -a_{\text{p}} \frac{n_0}{\eta_0} \underline{u}_{\text{s}} \exp\left\{ik_0 n_0 \left[\underline{u}_{\text{prop}} \bullet \underline{r} \sin\theta_{\text{inc}} + z \cos\theta_{\text{inc}}\right]\right\} \\ & z < 0\,, \end{aligned}\right\},$$

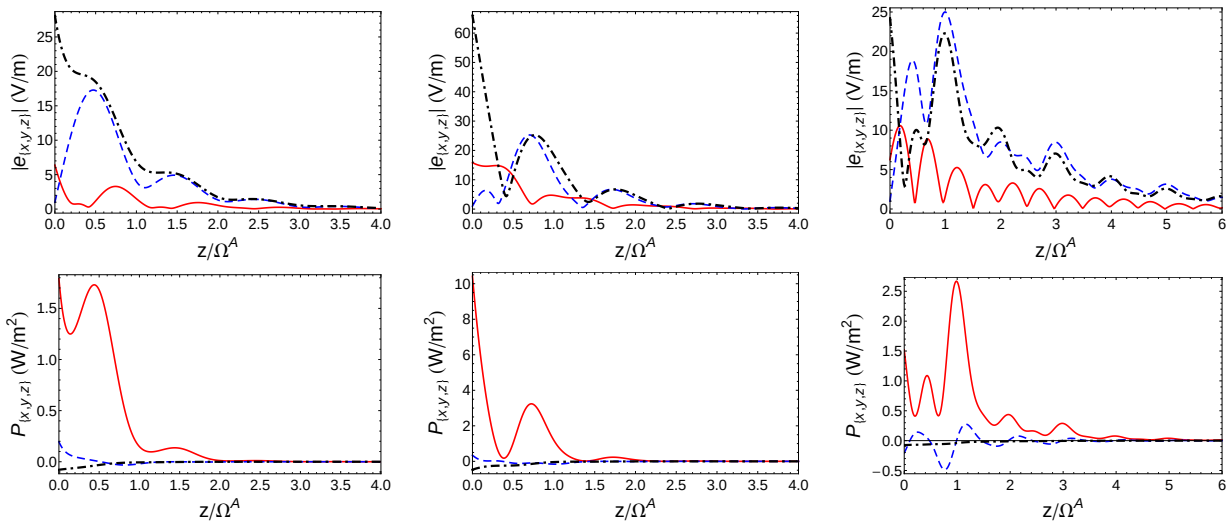
4. Page 77. Equation (2.149) should be

$$\begin{bmatrix} \left[\breve{\underline{T}}\right]^{(0)} \\ \left[\breve{\underline{R}}\right] \end{bmatrix} = \begin{bmatrix} \left[\breve{\underline{\underline{Z}}}_{\text{upper}}\right]^{(0)} & -\left[\breve{\underline{\underline{Y}}}_{e}^{\text{ref}}\right] \\ \left[\breve{\underline{\underline{Z}}}_{\text{lower}}\right]^{(0)} & -\left[\breve{\underline{\underline{Y}}}_{h}^{\text{ref}}\right] \end{bmatrix}^{-1} \bullet \begin{bmatrix} \left[\breve{\underline{\underline{Y}}}_{e}^{\text{inc}}\right] \\ \left[\breve{\underline{\underline{Y}}}_{h}^{\text{inc}}\right] \end{bmatrix} \bullet \left[\breve{\underline{A}}\right] .$$

5. Page 161. The term on the left side of Eq. (5.21) should be $\left[\underline{\underline{P}}_{p}^{\mathcal{B}}\right]$. That is, this equation should be

$$\left[\underline{\underline{P}}_{p}^{\mathcal{B}}\right] = \begin{bmatrix} 0 & \omega\mu_0 - \frac{q^2}{\omega\epsilon^{\mathcal{B}}} \\ \omega\epsilon^{\mathcal{B}} & 0 \end{bmatrix} .$$

6. Page 221. The graphs in Fig. 6.30 should be displayed as:



(a) mode on branch 1 (b) mode on branch 2 (c) mode on branch 3

7. Page 253. Second last line: "noTable" should be "notable".

8. Page 291. The title of the paper for Ref. [334] should be:

   "Multiple trains of same-color surface plasmon-polaritons guided by the planar interface of a metal and a sculptured nematic thin film. Part IV: Canonical problem"

9. Page 291. Ref. [339] should be updated to:

   A.S. Hall, M. Faryad, G.D. Barber, L. Liu, S. Erten, T.S. Mayer, A. Lakhtakia, T.E. Mallouk, Broadband light absorption with multiple surface plasmon polariton waves excited at the interface of a metallic grating and photonic crystal, ACS Nano 7 (2013) 4995–5007, http://dx.doi.org/10.1021/nn4003488