「プラズモニクス―基礎と応用」第 2 刷正誤表（2011 年 1 月 20 日発行）

頁	該当箇所	誤	正
9	参考文献 2	4) G. Ruthemann, *Ann. Phys.*, **6**, 113 (1948)	4) G. Ruthemann, *Ann. Phys.*, **2**, 113 (1948)
	参考文献 11	11) C. J. Powell and J. B. Swan, *Phys. Rev.*, **118**, 640 (1959)	11) C. J. Powell and J. B. Swan, *Phys. Rev.*, **118**, 640 (1960)
21	式(3.75)	$\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}\begin{bmatrix} H_{l+1}^+ \\ H_{l+1}^- \end{bmatrix} = \begin{bmatrix} 1 & 1 \\ \alpha_l & -\alpha_l \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 1 \\ 1 & \exp(-ik_{zl}h_l) \end{bmatrix}\begin{bmatrix} H_l^+ \\ H_l^- \end{bmatrix}$	$\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}\begin{bmatrix} H_{l+1}^+ \\ H_{l+1}^- \end{bmatrix} = \begin{bmatrix} 1 & 1 \\ \alpha_l & -\alpha_l \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 0 \\ 0 & \exp(-ik_{zl}h_l) \end{bmatrix}\begin{bmatrix} H_l^+ \\ H_l^- \end{bmatrix}$
22	式(3.77)	$\mathbf{M}_l = \begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}^{-1}\begin{bmatrix} 1 & 1 \\ \alpha_l & -\alpha_l \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 1 \\ 1 & \exp(-ik_{zl}h_l) \end{bmatrix}$	$\mathbf{M}_l = \begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}^{-1}\begin{bmatrix} 1 & 1 \\ \alpha_l & -\alpha_l \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 0 \\ 0 & \exp(-ik_{zl}h_l) \end{bmatrix}$
	式(3.81)	$t = \dfrac{H_0^+}{H_L^-} = \dfrac{1}{m_{22}}$	$t = \dfrac{H_0^-}{H_L^-} = \dfrac{1}{m_{22}}$
26	式(3.96)	$k_{\mathrm{ev}} = k_x = \dfrac{\omega}{c}\sin\theta$	$k_{\mathrm{ev}} = k_x = \dfrac{n\omega}{c}\sin\theta$
30	表 4.1 銀の減衰定数	3.1	31
40	図 5.5 右側の縦軸	$\mathrm{Im}(k_{\mathrm{sp}})(\mu\mathrm{m}^{-1})$	$\mathrm{Im}(k_{\mathrm{sp}})(\mathrm{mm}^{-1})$
54	式(5.56) 式(5.57)	$\varepsilon_1 k_{z2} + \varepsilon_2 k_{z1}\tanh(k_{z1}h_2/2i) = 0$ (5.56) $\varepsilon_1 k_{z2} + \varepsilon_2 k_{z1}\coth(k_{z1}h_2/2i) = 0$ (5.57)	$\varepsilon_1 k_{z2} + \varepsilon_2 k_{z1}\coth(k_{z1}h_2/2i) = 0$ (5.56) $\varepsilon_1 k_{z2} + \varepsilon_2 k_{z1}\tanh(k_{z1}h_2/2i) = 0$ (5.57) ※式(5.56)と(5.57)が逆
66	式(6.17)	$\mathrm{d}Q = 2\pi nez\cos\theta\sin\theta\mathrm{d}\theta$	$\mathrm{d}Q = 2\pi nea^2 z\cos\theta\sin\theta\mathrm{d}\theta$
73	式(6.51)	$W = \dfrac{\omega^4\varepsilon_2}{12\pi c^3}\alpha^2 E_0^2 = \dfrac{\omega k^3\varepsilon_2}{12\pi}\alpha^2 E_0^2$	$W = \dfrac{\omega^4\varepsilon_2}{12\pi c^3}|\alpha|^2 E_0^2 = \dfrac{\omega k^3\varepsilon_2}{12\pi}|\alpha|^2 E_0^2$

	式(6.53)	$C_{\mathrm{sca}} = \dfrac{W}{\overline{S_0}} = \dfrac{k^4}{6\pi}\left|\alpha^2\right|$	$C_{\mathrm{sca}} = \dfrac{W}{\overline{S_0}} = \dfrac{k^4}{6\pi}\left|\alpha\right|^2$
73	式(6.55)	$\alpha = 4\pi r_1^{\ 3}\dfrac{(\varepsilon_1' - \varepsilon_2)(\varepsilon_1' + 2\varepsilon_2) + (\varepsilon_1'')^2 + i3\varepsilon_1''\varepsilon_2}{(\varepsilon_1' + 2\varepsilon_2) + (\varepsilon_1'')^2}$	$\alpha = 4\pi r_1^{\ 3}\dfrac{(\varepsilon_1' - \varepsilon_2)(\varepsilon_1' + 2\varepsilon_2) + (\varepsilon_1'')^2 + i3\varepsilon_1''\varepsilon_2}{(\varepsilon_1' + 2\varepsilon_2)^2 + (\varepsilon_1'')^2}$
	式(6.56)	$C_{\mathrm{abs}} = k\dfrac{12\pi r_1^{\ 3}\varepsilon_1''\varepsilon_2}{\left(\varepsilon_1' + 2\varepsilon_2\right) + \left(\varepsilon_1''\right)^2}$	$C_{\mathrm{abs}} = k\dfrac{12\pi r_1^{\ 3}\varepsilon_1''\varepsilon_2}{\left(\varepsilon_1' + 2\varepsilon_2\right)^2 + \left(\varepsilon_1''\right)^2}$
	式(6.56)の1行下	$k = 2\pi\varepsilon_2^{\ 1/2}\lambda$	$k = 2\pi\varepsilon_2^{\ 1/2}\big/\lambda$
74	式(6.59)	$C(r) = C_\theta(r) + C_r(r) = \dfrac{\alpha^2}{6\pi}\left(\dfrac{3}{r^4} + \dfrac{k^2}{r^2} + k^4\right)$	$C(r) = C_\theta(r) + C_r(r) = \dfrac{|\alpha|^2}{6\pi}\left(\dfrac{3}{r^4} + \dfrac{k^2}{r^2} + k^4\right)$
	式(6.60)	$C_\theta(r) = \dfrac{\alpha^2}{6\pi}\left(\dfrac{1}{r^4} - \dfrac{k^2}{r^2} + k^4\right)$	$C_\theta(r) = \dfrac{|\alpha|^2}{6\pi}\left(\dfrac{1}{r^4} - \dfrac{k^2}{r^2} + k^4\right)$
	式(6.61)	$C_r(r) = \dfrac{\alpha^2}{6\pi}\left(\dfrac{2}{r^4} + \dfrac{2k^2}{r^2}\right)$	$C_r(r) = \dfrac{|\alpha|^2}{6\pi}\left(\dfrac{2}{r^4} + \dfrac{2k^2}{r^2}\right)$
	式(6.62)	$C_{\mathrm{nf}} = C(r_1) = \dfrac{\alpha^2}{6\pi}\left(\dfrac{3}{r_1^{\ 4}} + \dfrac{k^2}{r_1^{\ 2}} + k^4\right)$	$C_{\mathrm{nf}} = C(r_1) = \dfrac{|\alpha|^2}{6\pi}\left(\dfrac{3}{r_1^{\ 4}} + \dfrac{k^2}{r_1^{\ 2}} + k^4\right)$
82	式(6.104)	$\xi_0 = \dfrac{c}{(a^2 - c^2)^{1/2}}$	$\xi_0 = \dfrac{b}{(a^2 - b^2)^{1/2}}$
84	式(6.116)	$\omega = \dfrac{\omega_{\mathrm{p}}}{\sqrt{2}}\left[1 \pm \sqrt{1 + 8\left(\dfrac{r_2}{r_1}\right)^3}\right]^{1/2}$	$\omega = \dfrac{\omega_{\mathrm{p}}}{\sqrt{6}}\left[3 \pm \sqrt{1 + 8\left(\dfrac{r_2}{r_1}\right)^3}\right]^{1/2}$

109	式(7.5)の 1 行下	$\exp(ikx)$	$\exp(-ikx)$
	式(7.6)の 1 行下	$\exp\left[i\left(k-K\right)x\right]$	$\exp\left[-i\left(k-K\right)x\right]$
110	式(7.9)の 1 行上	$k^2 = \omega^2 \varepsilon_0/c^2$	$k^2 = \omega^2 \varepsilon_1/c^2$
110	式(7.9)	$\begin{bmatrix} \dfrac{\omega^2}{c^2}\varepsilon_1 - k^2 & \dfrac{\varepsilon_2}{\varepsilon_0}\dfrac{k^2}{2} \\[2mm] \dfrac{\varepsilon_2}{\varepsilon_1}\dfrac{k^2}{2} & \dfrac{\omega^2}{c^2}\varepsilon_1 - \left(k-K\right)^2 \end{bmatrix} \begin{bmatrix} E_0 \\ E_{-1} \end{bmatrix} = 0$	$\begin{bmatrix} \dfrac{\omega^2}{c^2}\varepsilon_1 - k^2 & \dfrac{\varepsilon_2}{\varepsilon_1}\dfrac{k^2}{2} \\[2mm] \dfrac{\varepsilon_2}{\varepsilon_1}\dfrac{k^2}{2} & \dfrac{\omega^2}{c^2}\varepsilon_1 - \left(k-K\right)^2 \end{bmatrix} \begin{bmatrix} E_0 \\ E_{-1} \end{bmatrix} = 0$
137	式(8.35)	$\boldsymbol{D}^m = \varepsilon_0 \varepsilon \boldsymbol{E}^{n-1} + \varepsilon_0 \sum_{m=0}^{n-2} \boldsymbol{E}^{n-1-m}\chi^m$	$\boldsymbol{D}^{n-1} = \varepsilon_0 \varepsilon_\infty \boldsymbol{E}^{n-1} + \varepsilon_0 \sum_{m=0}^{n-2} \boldsymbol{E}^{n-1-m}\chi^m$
	式(8.36)	$\boldsymbol{D}^m - \boldsymbol{D}^{m-1} = \varepsilon_0\left(\varepsilon_\infty + \chi^0\right)\boldsymbol{E}^n - \varepsilon_0\varepsilon\boldsymbol{E}^{n-1} - \varepsilon_0 \sum_{m=0}^{n-2}\boldsymbol{E}^{n-1-m}\Delta\chi^m$	$\boldsymbol{D}^n - \boldsymbol{D}^{n-1} = \varepsilon_0\left(\varepsilon_\infty + \chi^0\right)\boldsymbol{E}^n - \varepsilon_0\varepsilon_\infty\boldsymbol{E}^{n-1} - \varepsilon_0 \sum_{m=0}^{n-2}\boldsymbol{E}^{n-1-m}\Delta\chi^m$
138	式(8.44)	$\begin{aligned} \chi^m &= \int_{m\Delta t}^{(m+1)\Delta t} \chi(\tau)\mathrm{d}\tau \\ &= \int_{m\Delta t}^{(m+1)\Delta t} \frac{\omega_\mathrm{p}^2}{\Gamma}\left[1-\exp(-\Gamma t)\right]U(t)\mathrm{d}\tau \\ &= \frac{\omega_\mathrm{p}^2}{\Gamma}\left[\tau + \frac{1}{\Gamma}\exp(-\Gamma t)\right]_{m\Delta t}^{(m+1)\Delta t} \\ &= \frac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\} \end{aligned}$	$\begin{aligned} \chi^m &= \int_{m\Delta t}^{(m+1)\Delta t} \chi(\tau)\mathrm{d}\tau \\ &= \int_{m\Delta t}^{(m+1)\Delta t} \frac{\omega_\mathrm{p}^2}{\Gamma}\left[1-\exp(-\Gamma \tau)\right]U(\tau)\mathrm{d}\tau \\ &= \frac{\omega_\mathrm{p}^2}{\Gamma}\left[\tau + \frac{1}{\Gamma}\exp(-\Gamma \tau)\right]_{m\Delta t}^{(m+1)\Delta t} \\ &= \frac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma \Delta t)\right]\right\} \end{aligned}$

139	式(8.45)	$\Delta\chi^{m+1} = \chi^{m+1} - \chi^m$ $= \dfrac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \dfrac{1}{\Gamma}\exp\left[1-\Gamma(m+1)\Delta t\right]\left[1-\exp(-\Gamma t)\right]\right\} - \dfrac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \dfrac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\}$ $= -\dfrac{\omega_\mathrm{p}^2}{\Gamma}\left[1-\exp(-\Gamma t)\right]^2\exp(-\Gamma m\Delta t)$	$\Delta\chi^{m+1} = \chi^m - \chi^{m+1}$ $= \dfrac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \dfrac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\} - \dfrac{\omega_\mathrm{p}^2}{\Gamma}\left\{\Delta t - \dfrac{1}{\Gamma}\exp\left[1-\Gamma(m+1)\Delta t\right]\left[1-\exp(-\Gamma t)\right]\right\}$ $= -\dfrac{\omega_\mathrm{p}^2}{\Gamma^2}\left[1-\exp(-\Gamma\Delta t)\right]^2\exp(-\Gamma m\Delta t)$

257	下から 2～1 行目	`c = 2.997924581`**`0^14`**`; (* Speed of light in vacuum in um/sec *)`
		
		`OmegapAu = 1.34`**`^16`**`; (* Plasma frequency in 1/sec *)`
			`c = 2.99792458`**`*10^14`**`; (* Speed of light in vacuum in um/sec *)`
			
			`OmegapAu = `**`1.38*10^16`**`; (* Plasma frequency in 1/sec *)`

258	上から1～5行目	`GammaBulkAu = 1.0/(`**`9.310^-15`**`);(* Dumping constant in 1/sec *)`
		
		`VfAu = `**`1.3910^12`**`; (* Fermi velocity in um/sec *)`
		
		`OmegapAg = `**`1.3410^16`**`; (* Plasma frequency in 1/sec *)`
		
		`GammaBulkAg = 1.0/(`**`9.310^-15`**`);(* Dumping constant in 1/sec *)`
		
		`VfAg = `**`1.3910^12`**`; (* Fermi velocity in um/sec *)`
			`GammaBulkAu = 1.0/(`**`9.3*10^-15`**`);(* Dumping constant in 1/sec *)`
			
			`VfAu = `**`1.39*10^12`**`; (* Fermi velocity in um/sec *)`
			
			`OmegapAg = `**`1.40*10^16`**`; (* Plasma frequency in 1/sec *)`
			
			`GammaBulkAg = 1.0/(`**`31*10^-15`**`);(* Dumping constant in 1/sec *)`
			
			`VfAg = `**`1.39*10^12`**`; (* Fermi velocity in um/sec *)`

259	下から5行目	`Re[an[l, lambda, a] + `**`12.5 ptbn`**`[l, lambda, a]], {l, 1, lmax` `[lambda, a]}];`	`Re[an[l, lambda, a] + `**`bn`**`[l, lambda, a]], {l, 1, lmax[lambda, a]}];`