「プラズモニクス—基礎と応用」第 4 刷正誤表（2012 年 6 月 20 日発行）

頁	該当箇所	誤	正
21	式(3.75)	$\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}\begin{bmatrix} H_{l+1}^{+} \\ H_{l+1}^{-} \end{bmatrix}=\begin{bmatrix} 1 & 1 \\ \alpha_{l} & -\alpha_{l} \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 1 \\ 1 & \exp(-ik_{zl}h_l) \end{bmatrix}\begin{bmatrix} H_{l}^{+} \\ H_{l}^{-} \end{bmatrix}$	$\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}\begin{bmatrix} H_{l+1}^{+} \\ H_{l+1}^{-} \end{bmatrix}=\begin{bmatrix} 1 & 1 \\ \alpha_{l} & -\alpha_{l} \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 1 \\ 1 & \exp(-ik_{zl}h_l) \end{bmatrix}\begin{bmatrix} H_{l}^{+} \\ H_{l}^{-} \end{bmatrix}$
22	式(3.77)	$\mathrm{M}_l=\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}^{-1}\begin{bmatrix} 1 & 1 \\ \alpha_{l} & -\alpha_{l} \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 1 \\ 1 & \exp(-ik_{zl}h_l) \end{bmatrix}$	$\mathrm{M}_l=\begin{bmatrix} 1 & 1 \\ \alpha_{l+1} & -\alpha_{l+1} \end{bmatrix}^{-1}\begin{bmatrix} 1 & 1 \\ \alpha_{l} & -\alpha_{l} \end{bmatrix}\begin{bmatrix} \exp(ik_{zl}h_l) & 0 \\ 0 & \exp(-ik_{zl}h_l) \end{bmatrix}$
	式(3.81)	$t=\frac{H_0^{+}}{H_L^{-}}=\frac{1}{m_{22}}$	$t=\frac{H_0^{-}}{H_L^{-}}=\frac{1}{m_{22}}$
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(6.55)	$\alpha=4\pi r_1^3\frac{(\varepsilon_1'-\varepsilon_2)(\varepsilon_1'+2\varepsilon_2)+(\varepsilon_1'')^2+i3\varepsilon_1''\varepsilon_2}{(\varepsilon_1'+2\varepsilon_2)+(\varepsilon_1'')^2}$	$\alpha=4\pi r_1^3\frac{(\varepsilon_1'-\varepsilon_2)(\varepsilon_1'+2\varepsilon_2)+(\varepsilon_1'')^2+i3\varepsilon_1''\varepsilon_2}{(\varepsilon_1'+2\varepsilon_2)^2+(\varepsilon_1'')^2}$
	式(6.56)	$C_{\mathrm{abs}}=k\frac{12\pi r_1^3\varepsilon_1''\varepsilon_2}{(\varepsilon_1'+2\varepsilon_2)+(\varepsilon_1'')^2}$	$C_{\mathrm{abs}}=k\frac{12\pi r_1^3\varepsilon_1''\varepsilon_2}{(\varepsilon_1'+2\varepsilon_2)^2+(\varepsilon_1'')^2}$
	式(6.56)の 1 行下	$k=2\pi\varepsilon_2^{1/2}\lambda$	$k=2\pi\varepsilon_2^{1/2}/\lambda$
82	式(6.104)	$\xi_0=\frac{c}{(a^2-c^2)^{1/2}}$	$\xi_0=\frac{b}{(a^2-b^2)^{1/2}}$

84	式(6.116)	$\omega=\frac{\omega_{\mathrm{p}}}{\sqrt{2}}\left[1\pm\sqrt{1+8\left(\frac{r_2}{r_1}\right)^3}\right]^{1/2}$	$\omega=\frac{\omega_{\mathrm{p}}}{\sqrt{6}}\left[3\pm\sqrt{1+8\left(\frac{r_2}{r_1}\right)^3}\right]^{1/2}$
138	式(8.44)	$\chi^m=\int_{m\Delta t}^{(m+1)\Delta t}\chi(\tau)\mathrm{d}\tau$ $=\int_{m\Delta t}^{(m+1)\Delta t}\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left[1-\exp(-\Gamma t)\right]U(t)\mathrm{d}\tau$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left[\tau+\frac{1}{\Gamma}\exp(-\Gamma t)\right]_{m\Delta t}^{(m+1)\Delta t}$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\}$	$\chi^m=\int_{m\Delta t}^{(m+1)\Delta t}\chi(\tau)\mathrm{d}\tau$ $=\int_{m\Delta t}^{(m+1)\Delta t}\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left[1-\exp(-\Gamma\tau)\right]U(\tau)\mathrm{d}\tau$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left[\tau+\frac{1}{\Gamma}\exp(-\Gamma\tau)\right]_{m\Delta t}^{(m+1)\Delta t}$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma\Delta t)\right]\right\}$
139	式(8.45)	$\Delta\chi^{m+1}=\chi^{m+1}-\chi^m$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp\left[1-\Gamma(m+1)\Delta t\right]\left[1-\exp(-\Gamma t)\right]\right\}-\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\}$ $=-\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left[1-\exp(-\Gamma t)\right]^2\exp(-\Gamma m\Delta t)$	$\Delta\chi^{m+1}=\chi^m-\chi^{m+1}$ $=\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp(-\Gamma m\Delta t)\left[1-\exp(-\Gamma t)\right]\right\}-\frac{\omega_{\mathrm{p}}{}^2}{\Gamma}\left\{\Delta t-\frac{1}{\Gamma}\exp\left[1-\Gamma(m+1)\Delta t\right]\left[1-\exp(-\Gamma t)\right]\right\}$ $=-\frac{\omega_{\mathrm{p}}{}^2}{\Gamma^2}\left[1-\exp(-\Gamma\Delta t)\right]^2\exp(-\Gamma m\Delta t)$
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]}];`

［2017 年 7 月 31 日作成］