(x, y)
?
$\frac{}{\mu g_{k_s}(x,y)+\frac{1}{2}\nabla\nabla(g_{k_s}(x,y)-g_{k_p}(x,y)) g_k=\frac{1}{4}H_0^{(1)}(k|x-y|)} Helmholtz[\textbf{?}]_0^{(1)}(t)$
?
?
?
?
?
0
??
e_2
$y \in^2_+$
(x, y)
$q \in^2$
$\Delta_e[(x; y)q]+$
$\omega^2[(x, y)q] =$
$-\delta_y(x)q^2_+,$
$\sigma((x, y)q)e_2 =$
$0\Gamma_0, (\textbf{??}) green \delta_y(x)$
x_1
$\hat{(}\xi, x_2; y_2) =$
$\int_(x_1, x_2; y)e^{-\imath(x_1-y_1)\xi} dx_1, \forall\xi \in$
$, 1$
$\hat{(}\xi, x_2; y_2) =$
$\hat{}_s(\xi, x_2; y_2)+$
$\hat{}_p(\xi, x_2; y_2)$
$\hat{}_s(\xi, x_2; y_2) =$
$\frac{1}{2\omega^2}\begin{pmatrix} \mu_s & -\xi\frac{x_2-y_2}{|x_2-y_2|} \\ -\xi\frac{x_2-y_2}{|x_2-y_2|} & \frac{\xi^2}{\mu_s} \end{pmatrix} e^{\imath\mu_s|x_2-y_2|},$
$\hat{}_p(\xi, x_2; y_2) =$
$\frac{1}{2\omega^2}\begin{pmatrix} \frac{\xi^2}{\mu_p} & \xi\frac{x_2-y_2}{|x_2-y_2|} \\ \xi\frac{x_2-y_2}{|x_2-y_2|} & \mu_p \end{pmatrix} e^{\imath\mu_p|x_2-y_2|}. \mu_\alpha =$
$(k^2_\alpha-$
$\xi^2)^{1/2}\alpha =$
s, p
$k_p =$
$\omega/\sqrt{+2\mu}, k_s =$
$\omega/\sqrt{\mu}$
(x, y)
$_c(x, y) =$
$(x, y)-$
$((x, y)-$
$(x, y'))_1, -y_2)$
$x_1 \textbf{????}_c(x, y)$
$\Delta_e[_c(x; y)q]+$
$\omega^2[_c(x, y)q] =$
$0^2_+,$
$\sigma(_c(x, y)q)e_2 =$
$-\sigma((x, y)-$
$(x, y'))\Gamma_0, \in$
$C\setminus\{0\}$
$z^{1/2}\sqrt{z}$
$\Im(z^{1/2}) \geq$
$0z =$
z_1+
$\mathbf{i}z_2$
$z_1, z_2 \in$
$^{1/2} =$
$sgn(z_2)\sqrt{\frac{|z|+z_1}{2}}+$
$\imath\sqrt{\frac{|z|-z_1}{2}}, \forall z \in$
$\setminus^-_+. ^{1/2}\to$
0^+
$(z+$
$\imath)^{1/2}$
$(z-$
$\imath)^{1/2}$
$\textbf{????}x_2$
$\mu\frac{d^2(e_1^T{}_c\hat{q})}{dx_2^2}+$
$\imath(\lambda+$
$\mu)\xi\frac{d(e_2^T{}_c\hat{q})}{dx_2}+$
$(\omega^2-$
$(\lambda+$
$2\mu)\xi^2)(e^T_{\cdot}\ q) = 0(\lambda+2\mu)\frac{d^2(e_2^T{}_c\hat{q})}{\cdot} + \imath(\lambda+\mu)\xi\frac{d(e_1^T{}_c\hat{q})}{\cdot} + (\omega^2-\mu\xi^2)(e^T_{\cdot}\ q)\hat{} = 0(\textbf{??}) \begin{bmatrix} \imath\mu_s \\ \cdot \end{bmatrix} e^{\imath\mu_s x_2} \begin{bmatrix} \imath\xi \\ \cdot \end{bmatrix}$ … $(\textbf{??})$ … $\frac{1}{\cdot}\sum$