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