

$$\begin{array}{l} (x,y)\\ \textcolor{red}{?}\\ \left(\frac{1}{\mu}g_{k_s}(x,y)+\frac{1}{2}\nabla\nabla g_{k_s}(x,y)\right)-\\ \frac{1}{2}\nabla\nabla g_{k_p}(x,y)\\ \stackrel{:=}{=}_s\\ (x,y)+_p\\ (x,y),g_k=\\ \frac{1}{4}H_0^{(1)}(k|x-\\ y|).Helmholtz[?]_0^{(1)}(t)\\ \textcolor{red}{?}\\ \textcolor{red}{?}\\ \textcolor{red}{?}\\ \textcolor{red}{?}\\ \textcolor{red}{?}\\ \mathfrak{O}\textcolor{red}{?}\\ \mathfrak{E}_2^2\\ y\in^2_+\\ (x,y)\\ q\in^2_+\\ \Delta_e[(x;y)q]+\\ \omega^2[(x;y)q]=\\ -\delta_y(x)q^2_+,\\ \sigma((x;y)q)e_2=\\ 0\Gamma_0,(\textcolor{red}{??})Green\delta_y(x)\\ x_1\\ (\xi,x_2;y_2)=\\ \int x_1,x_2;y)e^{-1(x_1-y_1)\xi}dx_1,\forall \xi\in\\ \textcolor{red}{\dot{\wedge}}^1(\xi,x_2;y_2)=\\ \textcolor{red}{\hat{\wedge}}_s(\xi,x_2;y_2)+\\ \textcolor{red}{\hat{\wedge}}^p_s(\xi,x_2;y_2)=\\ \frac{1}{2\omega^2}\left(\begin{array}{cc}\mu_s&-\xi\frac{x_2-y_2}{|x_2-y_2|}\\ -\xi\frac{x_2-y_2}{|x_2-y_2|}&\frac{\xi^2}{\mu_s}\end{array}\right)e^{i\mu_s|x_2-y_2|},\\ \textcolor{red}{\hat{\wedge}}^p_s(\xi,x_2;y_2)=\\ \frac{1}{2\omega^2}\left(\begin{array}{cc}\frac{\xi^2}{\mu_p}&\xi\frac{x_2-y_2}{|x_2-y_2|}\\ \xi\frac{x_2-y_2}{|x_2-y_2|}&\mu_p\end{array}\right)e^{i\mu_p|x_2-y_2|}.\mu_\alpha=\\ (k^2_\alpha-\\ \xi^2)^{1/2}\alpha=\\ \mathfrak{s},p\\ k_p=\\ \omega/\sqrt{+2\mu},k_s=\\ \omega/\sqrt{\mu}\\ (x,y)\\ \mathfrak{F}\stackrel{=}{=}\\ {}_c(x,y)=\\ (x,y)-\\ ((x,y)-\\ (x,y')),_1,-y_2)\\ x_1\\ \textcolor{red}{????}_c(x,y)\\ \Delta_e[{}_c(x;y)q]+\\ \omega^2[{}_c(x;y)q]=\\ 0^2_+,\\ \sigma({}_c(x;y)q)e_2=\\ -\sigma((x,y)-\\ (x,y'))\Gamma_0,\in\\ C\backslash\{0\}\\ z^{1/2}\sqrt{z}\\ \Im(z^{1/2})\geq\\ \mathfrak{O}\\ \stackrel{=}{\sim}_1+\\ \mathbf{i}z_2\\ z_1,z_2\in\\ 1/2=\\ sgn(z_2)\sqrt{\frac{|z|+z_1}{2}}+\\ \mathbf{i}\sqrt{\frac{|z|-z_1}{2}},\forall z\in\\ \setminus^+_{+}.\mathbf{i}^{1/2}\rightarrow\\ 0^+_+\\ (z+_+\\ \mathbf{i})^{1/2}\\ (z-_+\\ \mathbf{i})^{1/2}\end{array}$$