

??
forward.eps

$$D\subset_+=^2=\\ \{(x_1,x_2)^T\in^2:$$

$$x_2>0\}$$

$$\not D_0=\\ \{(x_1,x_2)^T\in^2:$$

$$x_2=0\}$$

$$x_s$$

$$q\in^2\\ (x,x_s)$$

$$x_r\in_0\\ u_q(x_r,x_s)=$$

$$u_q^s(x_r,x_s)+\\ (x_r,x_s)q,x_r\in_0$$

$$u_q^s(x,x_s)\\ \Delta_e u_q^s(x,x_s)+$$

$$\rho\omega^2 u_q^s(x,x_s)=\\ 0_+^2\bar{D},$$

$$u_q^s(x,x_s)=\\ -(x,x_s)q_D,$$

$$\sigma(u_q^s(x,x_s))e_2=\\ 0_{0,i}$$

$$x_i\\ \overline{1,2}$$

$$u_q^s(x_r,x_s)\\ \overline{D}$$

$$2\times\\ \overline{d}=$$

$$0\\ \{(x_1,x_2)^T\in_0:$$

$$x_1\in\\ (-d,d)\}$$

$$(x,y)\\ y$$

$$\overline{d}>0\\ d(x,y)$$

$$x,y\in_+^2\\ (x,y)\chi_{(-d,d)}$$

$$0\\ \chi_{(-d,d)}$$

$$(-d,d)\\ d(x,y)e_j,j=$$

$$1,2,\\ e[d(x,y)e_j]+^2$$

$$[d(x,y)e_j]=\\ 0_+^2,$$

$$d(x,y)e_j=\\ [(x,y)e_j]\chi_{(-d,d)0\cdot},\in_+^2$$

$$d(z,y)]_{ij}=\\ e_i$$

$$[d(z,y)e_j] \\ \int_d \overline{D(x,z)}e_i\cdot$$

$$\overline{(x,y)e_jds(x)},i,j=\\ 1,2.d(z,y)=$$

$$\int_d \overline{D(x,z)^T(x,y)}ds(x).\\ \overset{??}{\underset{??}{\mathfrak{H}}}$$

$$\overset{??}{\underset{??}{\mathfrak{H}}}\rightarrow\\ d(z,y)$$

$$(x,y)\in^{2\times 2}_+\\ x,y\in_+^2$$

$$\int_0 \overline{D(x,z)^T(x,y)}ds(x).(z,y)=\\ \lim_{\rightarrow 0+}\int_0 \overline{D^{\omega(1+1)}(x,z)^T(1+1)(x,y)}ds(x),\overline{D^{\omega(1+1)}(x,z)}q=$$

$$\sigma_{((1+1\omega)(x,z)q)e_2,\forall q\in^2}\\ \overset{??}{\underset{??}{\mathfrak{H}}}$$

$$\overset{??}{\underset{??}{\mathfrak{H}}}$$

$$\overline{2\pi\sum_{,\beta=p,s}p.v.\int\frac{(\xi)^T\overline{(\xi)}}{\delta(\xi)}e^{i(\mu_\alpha z_2-\overline{\mu}_\beta y_2)+1(y_1-z_1)\xi}d\xi-\frac{1}{2}\sum_{,\beta=p,s}\left[\frac{(\xi)^T\overline{(\xi)}}{\delta'(\xi)}e^{i(\mu_\alpha z_2-\overline{\mu}_\beta y_2)+1(y_1-z_1)\xi}\right]_{-k_R}^{k_R}}(z,y)=\\ \frac{1}{2\pi}\int_{-k_p}^{k_p}\overline{\frac{(\xi)^T\overline{(\xi)}}{\delta(\xi)}}e^{i\mu_p(z_2-y_2)+1(y_1-z_1)\xi}d\xi$$