Helmholtz 方程系数求解
Wednesday, June 25, 2025 11:56 PM 文文 才
$P=R(\gamma) \vec{Q}(\phi)$
$A = A + (1)(ky) \sqrt{\frac{2i}{\pi}A(n(ky))}$ $A = A + (1)(ky) \sqrt{\frac{2i}{\pi}A(n(ky))}$
 $(x) = \int_{V} Y(y) G_{0}(xy) dV + \int_{S} P'(y) \frac{\partial G_{0}(x,y)}{\partial N} dS$
 $\frac{1}{(x)} = \int_{V} \frac{y(y)}{y(y)} \frac{y(y)}{y($
其中Co为自由空间 Green 逐度之
角布 P(x,y)= R(x) 全(y), 耳 R(x) = Y(x) 其中x=kr,
数 $X=0$ = 分 (kr)
$\mathbb{A}(\mathbb{Z}^2+\mathbb{R}^2) \mathcal{C}_{10}(x,y,\mathcal{W}) = -\mathcal{S}(x-y)$
型字:不没有程上两角为:
(, (Y) = A H(1) (ky)
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过于二维空间中:Co(Y)=-11/hY+C
$\frac{1}{2\pi} \frac{G_0(x) = -\frac{1}{2\pi} \ln x + C = A \cdot \frac{2\pi}{\pi} \ln (kx)}{\pi}$
因于 (m (ky) = (mk+ my, KEZ lmy 声写数有)
因于MCRY)=MR+MY,民医UMY有线数有;
$\frac{1}{\sqrt{2}} = A \cdot \frac{21}{\sqrt{2}} : A = -\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$