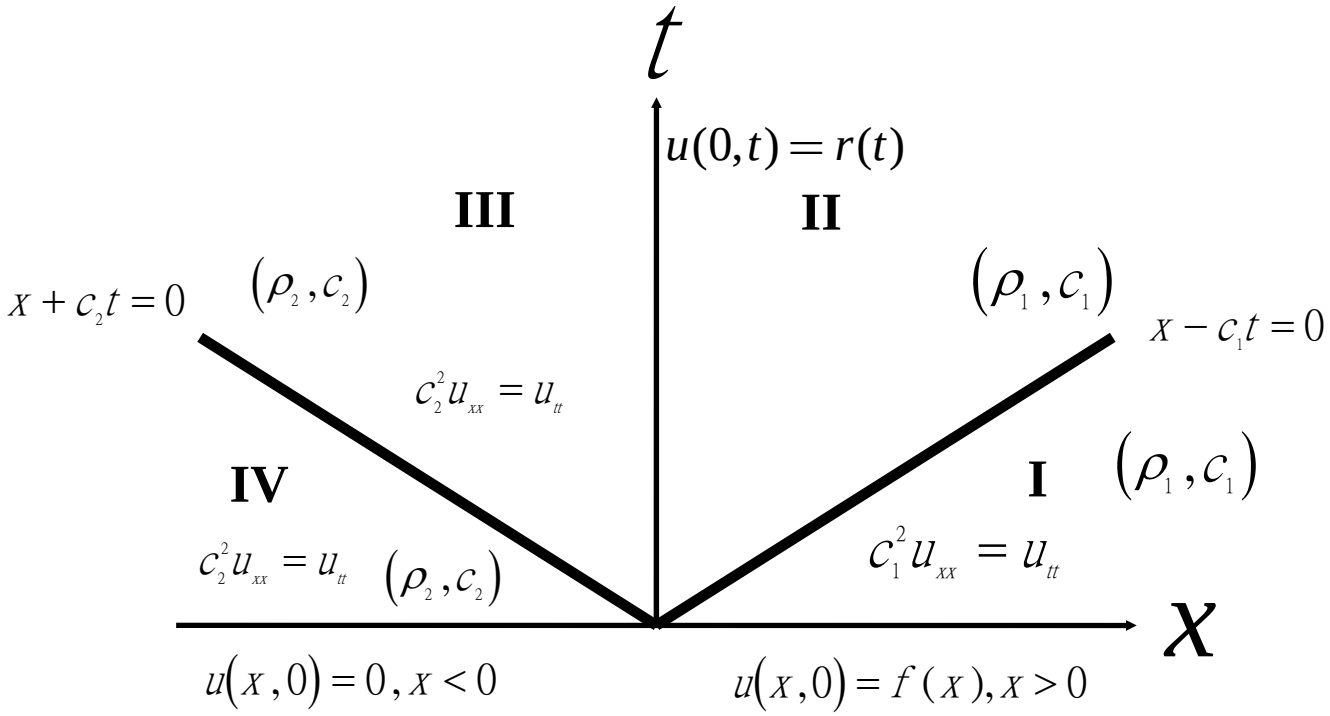
班級：_____學號：_____姓名：_____

海洋大學河海工程學系 2005 工程數學(四)第三次作業

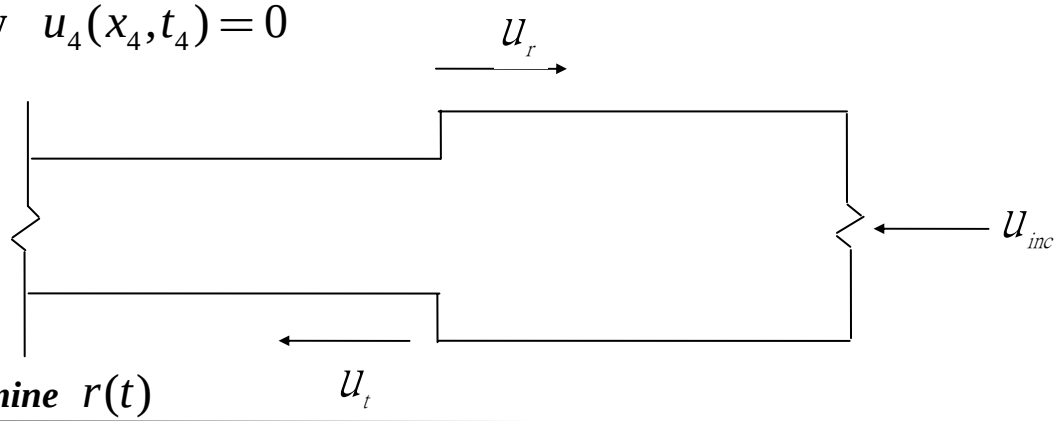


Region Ⅰ $u(x_1,t_1)=\frac{1}{2}(f(x_1+c_1t_1)-f(x_1-c_1t_1))$

Region Ⅱ $u(x_2,t_2)=\frac{1}{2}(f(x_2+c_1t_2)-f(-x_2+c_1t_2))+r(t_2-\frac{x_2}{c_1})$

Region Ⅲ $u(x_3,t_3)=r(\frac{x_3+c_2t_3}{c_2})$

Region Ⅳ $u_4(x_4,t_4)=0$



Determine $r(t)$