

國立台灣海洋大學河海工程研究所 BEM 第 2 次作業

1. In the course, we have derived the fundamental solution of

$$\frac{d^2 U(x, s)}{dx^2} - q^2 U(x, s) = \mathbf{d}(x - s), \quad -\infty < x < \infty$$

by using Fourier transform, inverse Fourier transform, residue theorem, and limiting process of $q \rightarrow 0$. Please derive the solution by using the same methods and setting $q = 0$ in the beginning.