

靜水面線性運動學邊界條件

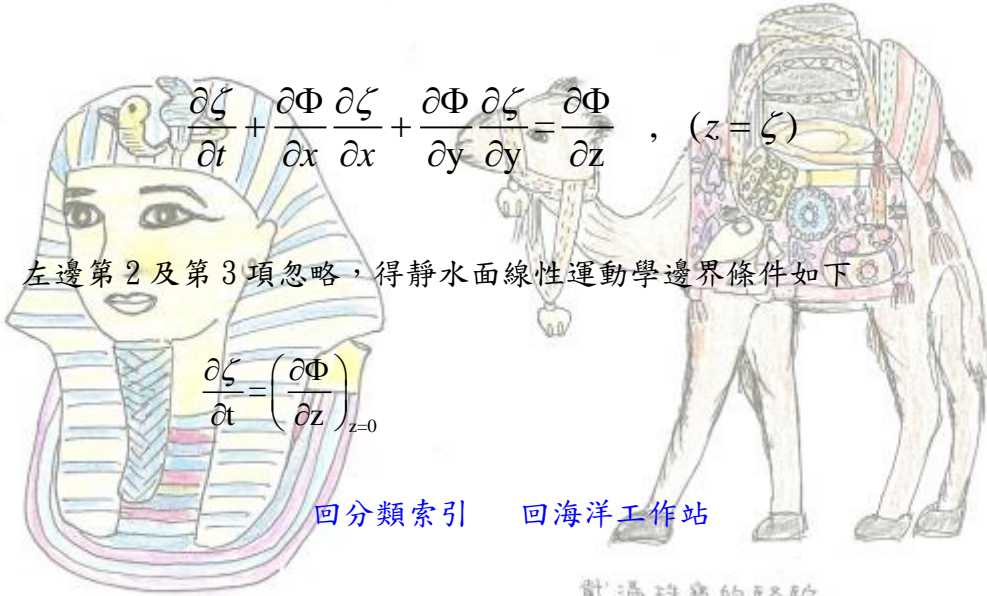
將下列所示自由水面運動學邊界條件

$$\frac{\partial \zeta}{\partial t} + \frac{\partial \Phi}{\partial x} \frac{\partial \zeta}{\partial x} + \frac{\partial \Phi}{\partial y} \frac{\partial \zeta}{\partial y} = \frac{\partial \Phi}{\partial z}, \quad (z = \zeta)$$

左邊第 2 及第 3 項忽略，得靜水面線性運動學邊界條件如下

$$\frac{\partial \zeta}{\partial t} = \left(\frac{\partial \Phi}{\partial z} \right)_{z=0}$$

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2011 埃及尼羅河之旅



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