计算对 Wigley 船进行。

L_{pp}=100 m

The relationship among L_{PP}, B and D is $B/L_{PP} = 0.1$ and $D/L_{PP} = 0.0625$

So

B=0.1* L_{PP}=100*0.1=10 m

吃水 $D = 0.0625* L_{PP}$=6.25m

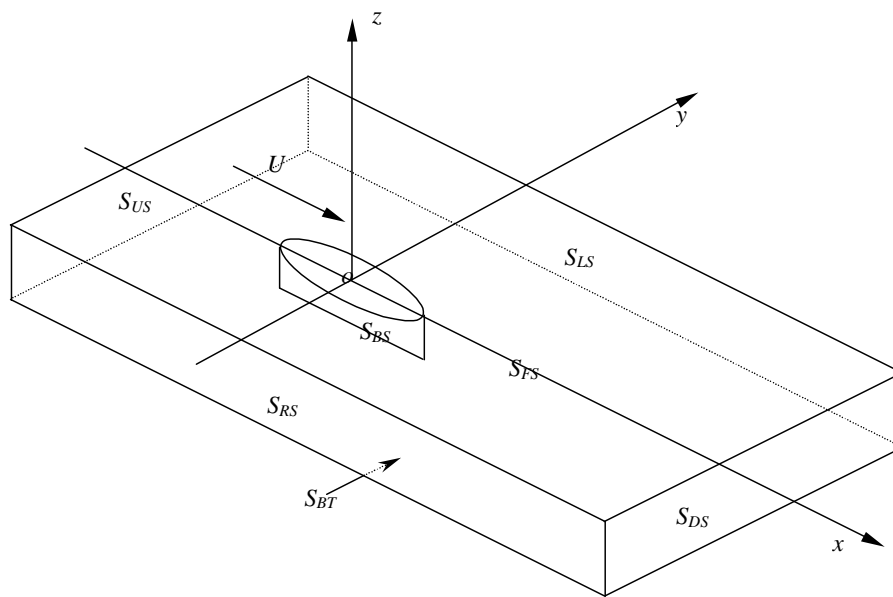$$y = 2B \left[\frac{1}{4} - \left(\frac{x}{L_{PP}} \right)^2 \right] \left[1 - \left(\frac{z}{D} \right)^2 \right],$$

坐标系统定义如下：

Figure 2.1   The coordinate system.