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Hydrodynamic Force of a Circular Cylinder close to the Water Surface

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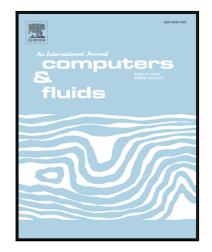
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Highlight

- The LES model and VOF method is used to study free surface flows over a circular cylinder.
- The effects of the gap ratio, depth ratio and Froude number on the force coefficients were analyzed.
- The pressure on the cylinder is affected by the water surface when the gap ratio less than 1.50.
- When the water depth drop behind the cylinder, the drag coefficient increases,

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