

Nomenclature

x,y,z	: Rectangular coordinates.
r,θ,z	: Cylindrical polar coordinates.
ρ	: Density of fluid.
p	: pressure.
u,v,w	: velocity component.
μ	: Coefficient of viscosity.
ν	: Kinematic coefficient.
ζ,η	: Elevation of free surface.
ξ	: Time integral of the displacement.
τ_{zz}	: Normal stress in components in cylindrical polar coordinate.
τ_{rz}	: Tangential stress component in cylindrical polar coordinate.
p_{yy}	: Normal pressure component in cartesian coordinate.
p_{xy}	: Tangential pressure component in cartesian coordinate.
X,Y,Z	: Component of body force per unit volume.
t	: time
$\delta(t)$: Diracdelta function.
$H(t)$: Heavy side unit function.
F	: Hypergeometric function
J_0	: Bessel function of first kind of order zero.
J_1	: Bessel function of first kind and first order.
J_n	: Bessel function of first kind and order n .
Γ	: gamma function.
Ω	: Angular velocity.
ω	: Frequency.
χ	: Acceleration potential.
ϕ	: Velocity potential.
ψ	: Current function.
Σ	: Summation.