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## NOMENCLATURE

D	diameter of the tube, m
E	energy, J
h	heat transfer coefficient, $W.m^{-2}.K^{-1}$
L	length of the tube, m
Nu	Nusselt number, dimensionless
P	pressure, Bar
Pr	Prandtl number, dimensionless
q	heat flux, $W.m^{-2}$
Re	Reynolds number, dimensionless
T	temperature, K
u	velocity, $m.s^{-1}$
Z+	dimensionless axial distance

## Greek symbols

$\beta$	tube inclination angle, degrees
$\lambda$	thermal conductivity, $W.m^{-1}.K^{-1}$
$\mu$	dynamic viscosity, $kg.m^{-1}.s^{-1}$
$\rho$	density, $kg.m^{-3}$

## Subscripts

f	fluid
l	local
s	solid