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NOMENCLATURE

G	Mass flux, kg. m ⁻² .s ⁻¹
Cp	Specific heat, J. kg ⁻¹ .K ⁻¹
d	Inner equivalent tube diameter, m
g	gravitational acceleration, m.s ⁻²
Re	Reynolds number
Nu	Nusselt number for single-phase
Pr	Prandtl number
P	Fluid pressure, kg. m ⁻¹ .s ⁻²
T _p	Wall temperature, °C
N	Numbers of experimental points.
V	Fluid Velocity, m.s ⁻¹
e	Equivalent grain size of rough

Greek symbols

α	Single-phase heat transfer coefficient, kg.m ⁻² .s ⁻³ .K ⁻¹
μ	Dynamic viscosity, kg. m ⁻¹ .s ⁻¹
μ _p	Dynamic viscosity at the wall mean temperature, kg. m ⁻¹ .s ⁻¹
μ _f	Dynamic viscosity at the fluid mean temperature, kg. m ⁻¹ .s ⁻¹
λ	Fluid thermal conductivity, W.m ⁻¹ . K ⁻¹
f	Darcy's friction factor
l	Duct's length, m

Subscripts

Eq.	Equation
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