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## NOMENCLATURE

B	dimensionless heat source length
CP	specific heat, J. kg <sup>-1</sup> . K <sup>-1</sup>
g	gravitational acceleration, m.s <sup>-2</sup>
k	thermal conductivity, W.m <sup>-1</sup> . K <sup>-1</sup>
Nu	local Nusselt number along the heat source

## Greek symbols

α	thermal diffusivity, m <sup>2</sup> . s <sup>-1</sup>
β	thermal expansion coefficient, K <sup>-1</sup>
φ	solid volume fraction
Θ	dimensionless temperature
μ	dynamic viscosity, kg. m <sup>-1</sup> .s <sup>-1</sup>

## Subscripts

p	nanoparticle
f	fluid (pure water)
nf	nanofluid