









imposed by the natural convection mechanism acting on a vertical wall in steady-state laminar regime.

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## NOMENCLATURE

$g$	gravitational acceleration, m.s-2
$H$	reference length, m
$k$	thermal conductivity, W.m-1. K-1
$Nu_H$	global Nusselt number
$Nu_y$	local Nusselt number
$Pr$	Prandtl number
$q''$	heat flux density, W.m-2
$Ra_H$	global Rayleigh number
$Ra_y$	local Rayleigh number
$T$	temperature, K
$T_0$	wall temperature, K
$T_\infty$	ambient temperature, K
$u, v$	velocities componets, m.s-1
$V$	velocity, m.s-1
$x, y$	coordinates, m

## Greek symbols

$\alpha$	thermal diffusivity, m2. s-1
$\beta$	thermal expansion coefficient, K-1
$\delta$	dynamic layer thickness, m
$\delta_T$	thermal layer thickness, m
$\delta_v$	shearing layer thickness of the wall, m
$\nu$	kinematic viscosity, m2.s-1