

NOMENCLATURE

A	heat transfer area of surface, m^2
c_p	specific heat, $J \cdot kg^{-1} \cdot K^{-1}$
C	pollutant concentration, $mol \cdot m^{-3}$
D	diffusion coefficient, $m^2 \cdot s^{-1}$
h	convective heat transfer coefficient, $W \cdot m^{-2} \cdot K^{-1}$
k	thermal conductivity, $W \cdot m^{-1} \cdot K^{-1}$
p	pressure, Pa
S	pollutant concentration at the pollutant source, $mol \cdot m^{-3} \cdot s^{-1}$
T	temperature, $^{\circ}C$

u	velocity of fluid in x-axis, $m \cdot s^{-1}$
v	velocity of fluid in y-axis, $m \cdot s^{-1}$

Greek symbols

ρ	density of fluid, $kg \cdot m^{-3}$
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Subscripts

avg	average
max	maximum
0	Initial value of boundary condition