List of Used Symbols:

A_i:	cross-sectional area in front of a contraction
A_o:	cross-sectional area behind a contraction
C_C:	Cunningham slip correction factor
d:	inner diameter (ID)
D:	particle diffusion coefficient
d_p:	particle diameter
f_{calm}:	parameter in Grinshpun et al. (1993, 1994)
	(interpolation weighting factor for calm air)
f_{moving}:	parameter in Grinshpun et al. (1993, 1994)
	(interpolation weighting factor for moving air)
g:	acceleration of gravity
I_v:	parameter in Hangal, Willeke (1990a, b)
	(describes inertial losses in the vena contracta for isoxaxial sampling)
$I_w \Downarrow$:	parameter in Hangal, Willeke (1990a, b)
	(direct impaction loss parameter for non-isoaxial downward sampling)
$I_w \Uparrow$:	parameter in Hangal, Willeke (1990a, b)
	(direct impaction loss parameter for non-isoaxial upward sampling)
k:	parameter in Belyaev, Levin (1972, 1974)
	(isoaxial sampling)
k':	parameter in Heyder, Gebhart (1972)
	(gravitational settling)
Kn:	Knudsen Number
L:	tube length
Q:	volumetric flow rate
R:	velocity ratio
Re:	Reynolds Flow Number
Re_p:	Particle Reynolds Number
Sc:	Schmidt Number
Sh:	Sherwood Number

Stk:	Stokes Number
Stk':	modified Stokes Number in Durhem, Lundgren (1980)
U:	flow velocity in the sampling probe/tube
U_0:	surrounding wind speed
V_0:	initial velocity of the particles
V_t:	turbulent inertial deposition velocity
V_{ts}:	terminal settling velocity of the particles
Z:	parameter in Fuchs (1964), Thomas (1958) (gravitational deposition parameter)

α:	parameter in Hangal, Willeke (1990a, b) (non-isoaxial sampling)
δ:	parameter in Grinshpun et al. (1993, 1994) (sampling from low-velocity gas flow)
ϵ:	parameter in Fuchs (1964), Thomas (1958) (gravitational settling)
η_{asp}:	aspiration efficiency
$\eta_{asp,calm\ air}$:	aspiration efficiency in calm air
$\eta_{asp,overall}$:	overall aspiration efficiency
$\eta_{bend,inert}$:	transport efficiency associated with inertial deposition in a bend
$\eta_{cont,inert}$:	transport efficiency associated with inertial deposition in a contraction
η_{diff}:	transport efficiency associated with diffusion
η_{grav}:	transport efficiency associated with sedimentation
$\eta_{sampling}$:	sampling efficiency
η_{inlet}:	overall efficiency/inlet efficiency
η_{trans}:	transmission efficiency
$\eta_{trans,grav}$:	transmission efficiency associated with gravitational sedimentation
$\eta_{trans,inert}$:	transmission efficiency associated with inertial deposition
$\eta_{transport}$:	transport efficiency
$\eta_{tube\ section,mechanism}$:	transport efficiency for each mechanism in each tube section
$\eta_{turb\ inert}$:	transport efficiency associated with turbulent inertial deposition
θ_{cont}:	contraction half-angle
θ_i:	angle of inclination corresponding to the horizontal

θ_{Kr}:	angle of curvature of a bend
θ_S:	aspiration angle corresponding to the wind direction
λ:	mean free path of particles
μ:	dynamic viscosity of the flow medium (air)
ξ:	parameter in Willeke, Baron (2005)
	(diffusional losses)
ρ_f:	density of the flow medium (air)
ρ_p:	particle density
ϕ:	angle corresponding to the vertical
χ:	dynamic shape factor