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NOMENCLATURE

E	(Effective) work potential
A_1	Inlet area of channel, m
A_2	Outlet area of channel, m
f	Friction factor
g	Acceleration due gravity, m ² /s
k_1	Inlet pressure loss coefficient
k_2	Outlet pressure loss coefficient
P_1	Pressure at inlet of channel, Pa
P_2	Pressure at outlet of channel, Pa
Q	Volume flow proportion, m ³ /s
v_1	Velocity at inlet of channel, m/s
v_2	Velocity at outlet of channel, m/s

Greek symbols

θ	Tilt angle, degree
ρ_a	Density of air in channel, kg/m ³
ρ_1	Density of air at inlet of channel, kg/m ³
ρ_2	Density of air at outlet of channel, kg/m ³