

NOMENCLATURE

C_1	=	a constant used in Yoshida and Akita's correlation
D	=	column diameter, ft
E_z	=	Axial dispersion coefficient, ft^2/sec
g	=	acceleration of gravity, $32.2 \text{ ft}/\text{sec}^2$
k_n	=	empirical parameters used in dimensional analysis to develop an expression for the axial dispersion coefficient
Ng_o	=	Bond number
N_{Fr}	=	Froude number
Ng_a	=	Galileo number
v	=	Superficial velocity, ft/sec

Greek Symbols

ϵ_g	=	Gas void fraction
σ	=	Surface tension
μ	=	Viscosity
ρ	=	Density
ν	=	Kinematic viscosity

Subscripts

g	=	Gas
L	=	Liquid
z	=	Axial