

List of Notations

a	Interfacial area, m^{-1}
B_o	Initial concentration of sodium sulfite, mol/l
C_A	Solubility of oxygen, mol/cc
C_{Fi}	Initial feed concentration, mg/l
D	Distribution factor, cm
d	Diameter of individual bubble, cm
D_A	Diffusivity of A in liquid phase, cm^2/Sec
FC-1	Foam column-1
FC-2	Foam column-2
FC-3	Foam column-3
G	Volumetric gas rate, cm^3/min
k	Flotation rate constant, min^{-1}
K_2	Second order reaction rate constant, $cc/mol*sec$
m	Order of reaction with respect to oxygen
n	Order of reaction with respect to sodium sulfite
N	Bubble emission frequency (bubbles/min)
n_f	Foamate concentration, moles/l
Q	volumetric rate of foam overflow on a gas free basis
r	Openings in sparger
R	Recovery at time t
R_∞	Ultimate recovery for an infinite time
R_{Aa}	Rate of absorption, $kmol/m^3s$
S	surface rate generated, cm^2/min
t	Time in min
λ	Wavelength of the X-rays used