

## Nomenclature

B	impact parameter, ( $=x/D_o$ )
$D_o$	initial droplet's diameter
$f_\sigma$	force due to surface tension
$L_1$	maximum elongation of coalesced mass
$L_2$	maximum elongation of ligament or satellite droplet
Re	Re number, ( $=\rho_{liq} D_o (2 U_o)/\mu_{liq}$ )
t	time
$\vec{T}$	stress tensor
T	non-dimensional time, ( $=tU_o/D_o$ )
$U_o$	initial droplet's impact velocity
$\vec{u}$	velocity
x	the projection of the separation distance between the droplet centers in the direction normal to that of $U_o$
X	X-axis of computational field
Y	Y-axis of computational field
Z	Z-axis of computational field
We	We number, ( $=\rho_{liq} D_o (2 U_o)^2/\sigma$ )
$w_2$	maximum width of ligament or satellite droplet

## Greek Symbols

$\alpha$	volume of fluid (also noted as indicator function)
$\kappa$	curvature ( $m^{-1}$ )
$\mu$	dynamic viscosity ( $kg/m\ s$ )
$\rho$	density ( $kg/m^3$ )
$\sigma$	surface tension ( $N/m$ )

## Subscripts

gas	gas phase
liq	liquid phase
tot	total