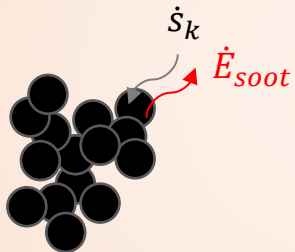


$V =$  Reactor Volume

$\dot{Q}$

Gas  
Mixture  
 $V(1 - f_v)$



Soot  
Particles  
 $Vf_v$