There are 5 equilibrium reactions as follows which occur in the bulk of the CVD chamber

SiH4 <->SiH2+H2

Si2H6<->SiH4+SiH2

Si3H8<->Si2H6+SiH2

Si2H4<->SiH2+SiH2

Si2H6<->Si2H4+H2

5 reactions should occur on the surface

SiH4->Si+2H2

SiH2->Si+H2

Si2H6->2Si+3H2

Si3H8->3Si+8SiH2

Si2H4->2Si+4H2

I request you to kindly help me out as how to write these reactions in transport of dilute species module.

I very greatly indebted to your help