

 $A + B \rightarrow C$ \mathbf{d} $B + * \rightarrow B*$ \mathbf{a} $B^* + * \rightarrow 2E^*$

Homogeneous Reaction

 ${\bf Gas~ad/desorption}$ Surface-gas coupling

Reaction Between Adsorbed Molecules

Reaction Between Adsorbed Molecules and Intermediate Species

Reaction Between Intermediate Species