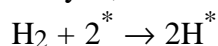
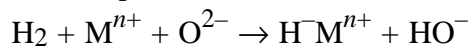


dissociative adsorption (dissociative chemisorption)

Adsorption with *dissociation* into two or more fragments, both or all of which are bound to the surface of the *adsorbent*. The process may be homolytic, as in the chemisorption of hydrogen:



where * represents a surface site, or heterolytic, as in:



where M^{n+} and O^{2-} are surface sites in which the ions are of lower coordination than the ions in the bulk phase.

Associative desorption is the reverse of dissociative adsorption.

1976, 46, 76, 84