## repulsive potential-energy surface

## Also contains definition of: late-downhill surface

A surface for an exergonic reaction A + BC in which the col corresponds to considerable separation between the products A-B+C. The energy barrier in the potential-energy profile is in the later stages of the reaction path. On such a surface most of the energy is released after A-B is formed. Repulsive surfaces are also called late-downhill surfaces, and the barrier in such a surface is called a Type-II barrier.

## Source:

PAC, 1996, 68, 149 (A glossary of terms used in chemical kinetics, including reaction dynamics (IUPAC Recommendations 1996)) on page 185