repulsive potential-energy 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.

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