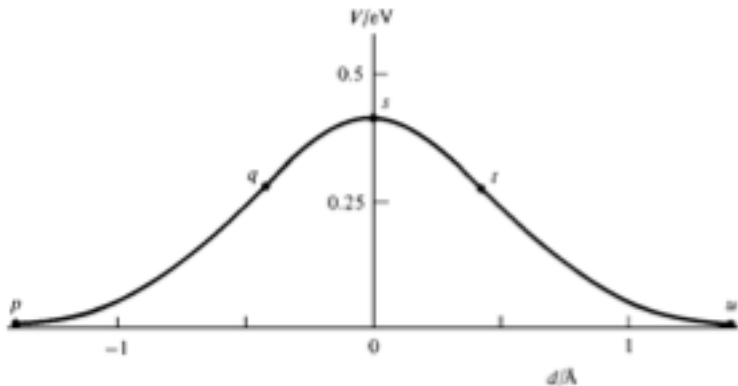


Establishing a connection with the Organic portion

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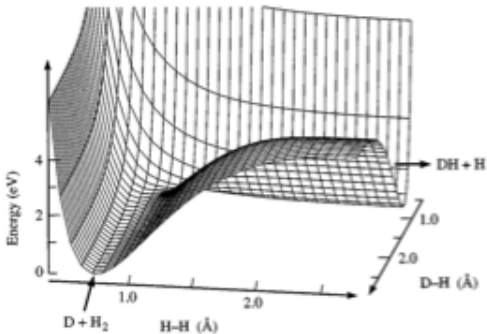
Sept. 29, 2015



1. How does one get this picture?
2. What is the y - axis?
3. What does the x -axis represent?

Potential energy surface for collinear $D + H_a - H_b$

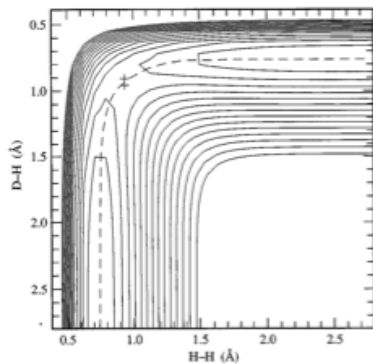
Plotting the energy for every value of r_{DH_a} , $r_{H_aH_b}$, and $\angle DH_aH_b$ gives



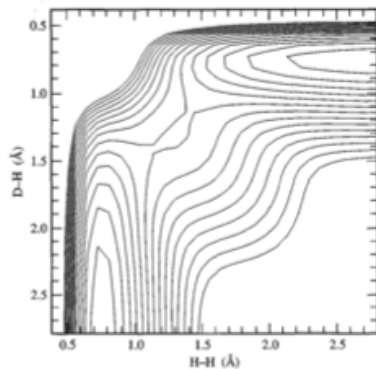
Reaction Coordinate - Minimum energy path from reactants to products.

Transition State - Highest point along the minimum energy path.

Potential energy surfaces are shown as contour maps



Collinear approach



Angular approach

Reaction coordinate for $\text{H} + \text{H}_2$

