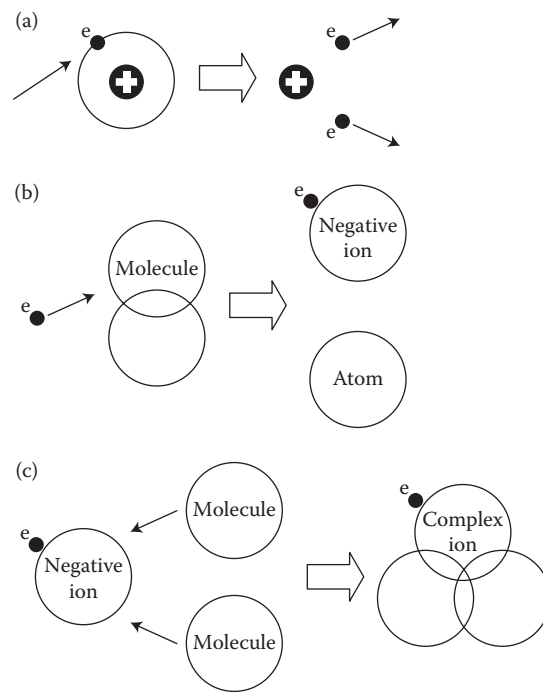


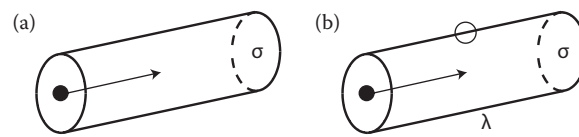
**FIGURE 2.1**

Illustrations of elementary processes. (a) Ionizations. (b) Dissociative attachment and formation of a negative ion. (c) Complex ion formation.



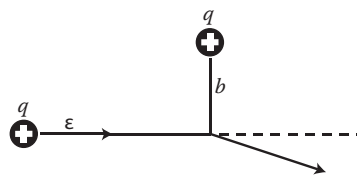
**FIGURE 2.2**

(a) Cross section of an elementary process. (b) Concept of the mean free path.



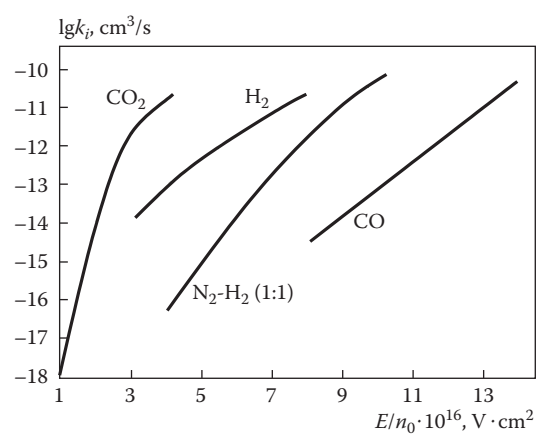
**FIGURE 2.3**

Illustrations of Coulomb collisions.



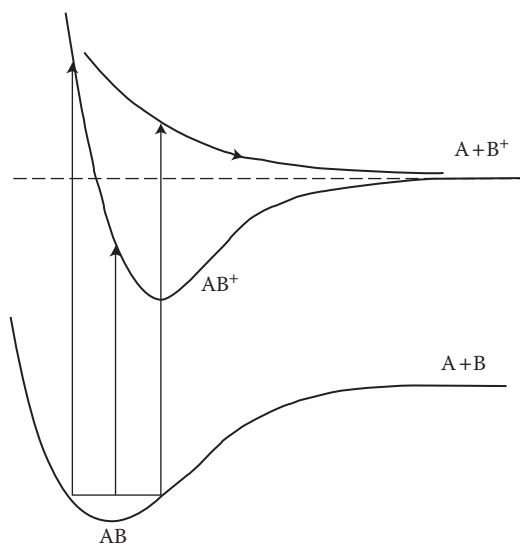
**FIGURE 2.4**

Ionization rate coefficient in molecular gases as a function of reduced electric field.



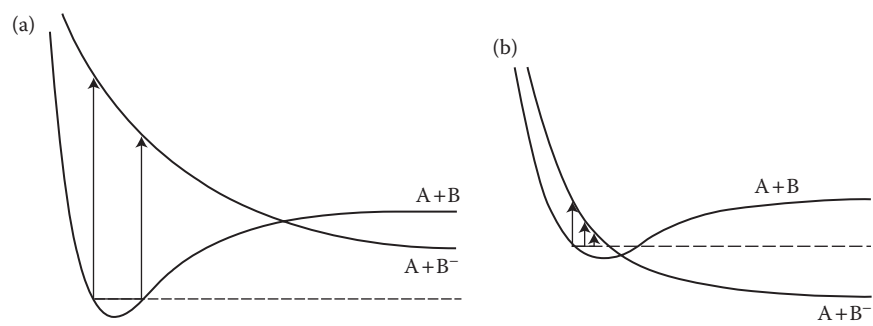
**FIGURE 2.5**

Molecular and ionic terms illustrating dissociative ionization.



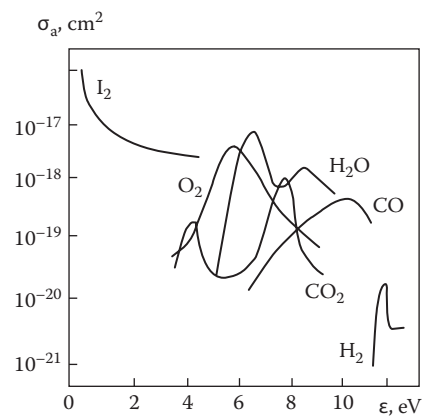
**FIGURE 2.6**

Dissociative attachment. (a) Low electron affinity. (b) High electron affinity.



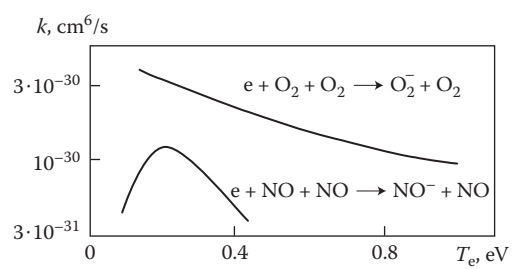
**FIGURE 2.7**

Cross sections of dissociative electron attachment to different molecules.



**FIGURE 2.8**

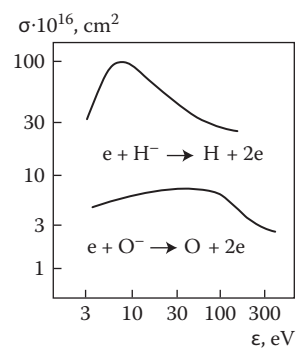
Rate coefficients of the three-body electron attachment to molecules.





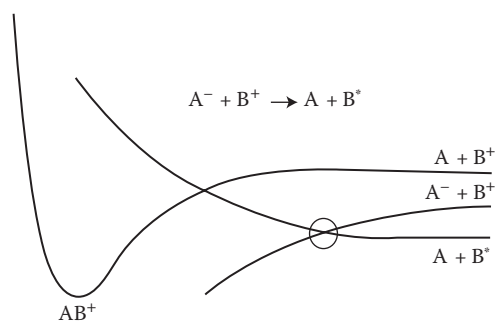
**FIGURE 2.9**

Negative ion destruction by electron impact.



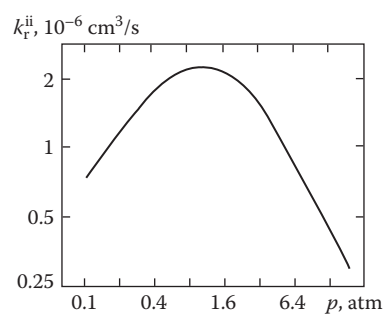
**FIGURE 2.10**

Terms illustrating the ion-ion recombination.



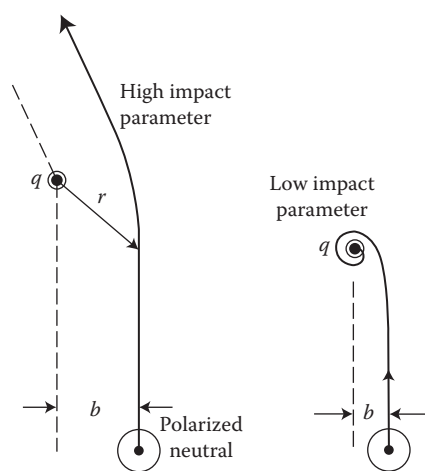
**FIGURE 2.11**

Ion-ion recombination rate coefficient in air.



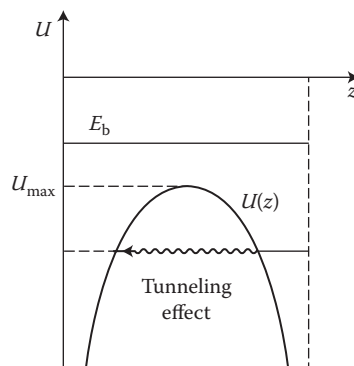
**FIGURE 2.12**

Langevin scattering in the polarization potential.



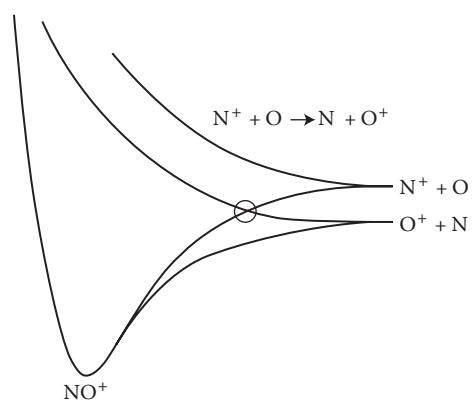
**FIGURE 2.13**

Energy terms for the resonant charge exchange.



**FIGURE 2.14**

Terms illustrating the nonresonant charge exchange.



**FIGURE 2.15**

Illustration of ion–molecular reactions of cluster growth.

