Chatting with bot

* you: what is the mirror equation
* bot: According to the provided context, the mirror equation is:  
    
  1/f = 1/u + 1/v  
    
  This is denoted as Eq. (9.7) in the text.

* you: what is meant by focal point of spherical mirror?
* bot: According to the provided context, the focal point (F) of a spherical mirror is the point on the principal axis where the reflected rays converge (for a concave mirror) or appear to diverge from (for a convex mirror) when a parallel beam of light is incident on the mirror.

* you: what is meant by a chemical reaction?
* bot: I don't know. The provided context appears to be related to physics and optics, and it does not mention chemical reactions.