28 When electromagnetic radiation of frequency f irradiates a metal surface, electrons are emitted and the measured stopping potential is V_s.

The frequency of the incident radiation is doubled to $2f$.

What change occurs in the stopping potential?

A The stopping potential increases to more than $2V_s$.

B The stopping potential increases to $2V_s$.

C The stopping potential increases to less than $2V_s$.

D The stopping potential remains at V_s.