

- 27** In an experiment to investigate photoelectric effect, a clean metal plate is illuminated with monochromatic light of wavelength λ and intensity I . Consequently, a steady photoelectric current I_e is observed to reduce to zero at negative potential V_s .

Then another source of monochromatic light of wavelength $\frac{1}{2}\lambda$ and same intensity I is shone upon the same plate simultaneously.

Which of the following changes in I_e and V_s occur?

- A** Both I_e and V_s are not doubled.
- B** Both I_e and V_s are doubled.
- C** I_e is doubled but V_s is not doubled.
- D** V_s is doubled but I_e is not doubled.