

TOPIC

Materials – Section IX - Question 4

QUESTION

In solids, increasing temperature

- (A) decreases the diffusion rate
- (B) has no effect on the diffusion rate
- (C) increases the diffusion rate exponentially
- (D) all of the above

HINT

Diffusion in solids is a thermally activated process.

SOLUTION

Diffusion rate in solids increases exponentially with temperature. The increase depends on the activation energy.

ANSWER

(C)

CONTRIBUTOR

Alex Volinsky