

TOPIC

Thermodynamics – Section 12 – Question 2

QUESTION

The specific heat of graphite over a temperature range of 200K to 800K is given by

$$C = 0.05749T^2 - 31.25T + 4370$$

where C is given in J/kg-K and temperature T is given in K. The amount of heat required in Joules to raise the temperature of 5 grams of graphite in an inert atmosphere from 400 K to 600K most nearly is

- (A) 420
- (B) 3309
- (C) 3692
- (D) 6316

CONTRIBUTOR

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