

Question 1: Water at 20°C falls from a height of 854 m. If the whole energy is used in increasing the temperature, find out the final temperature. Specific heat of water is 4200 J/K kg .

Given that

$$T_1 = 20^{\circ}\text{C} = 20 + 273 = 293 \text{ K}$$

$$\text{height} = h = 854 \text{ m}$$

$$\text{Specific heat of water} = 4200 \text{ J K}^{-1} \text{ kg}^{-1}$$

$$\text{Final temperature} = T_2 = ?$$

$$\text{P.E} = mgh \quad \text{--- (1)}$$

Solution:

We know that

$$\Delta Q = cm \Delta T \quad \text{--- (2)}$$

Whole energy is used in increasing the temperature (Given)

$$\Delta Q = \text{P.E}$$

From (1) and (2)

$$cm \Delta T = mgh$$

$$c \Delta T = gh$$

$$c (T_2 - T_1) = gh$$

$$T_2 - T_1 = \frac{gh}{c}$$

$$T_2 = \frac{gh}{c} + T_1$$

$$= \frac{9.8 \times 854}{4200} + 293$$

$$= \frac{8369.2}{4200} + 293 = 1.99 + 293$$

$$T_2 = 294.99 \text{ K} = 295 - 273^{\circ}\text{C}$$

$$T_2 = 22^{\circ}\text{C}$$

Answer The Following Questions About The Thermodynamics Of

Walther Nernst



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Reviewing **Answer The Following Questions About The Thermodynamics Of**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Answer The Following Questions About The Thermodynamics Of**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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