

For a first order reaction, $t_{1/2} = \frac{0.6932}{k}$

$$k = \frac{0.6932}{6.932 \times 10^4}$$

$$k = 10^{-5} \text{ s}^{-1}$$

$$k = \left(\frac{1}{t} \right) \ln \left(\frac{[A_0]}{[A]} \right)$$

$$10^{-5} \text{ s}^{-1} \times 100 \times 60 \text{ s} = \ln \left(\frac{[A_0]}{[A]} \right)$$

$$0.06 = \ln \left(\frac{[A_0]}{[A]} \right)$$

$$\frac{[A_0]}{[A]} = e^{0.06}$$

$$\frac{[A_0]}{[A]} = 1.06$$

$$\therefore \frac{[A_0] - [A]}{[A_0]} \times 100 \%$$

$$= \left(1 - \frac{[A]}{[A_0]} \right) \times 100 \%$$

$$= \left(1 - \frac{1}{1.06} \right) \times 100 \%$$

$$= 5.6 \%$$

Chemical Kinetics Problems And Solutions

N. N. Semenov



Chemical Kinetics Problems And Solutions:

Unveiling the Magic of Words: A Review of "**Chemical Kinetics Problems And Solutions**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Chemical Kinetics Problems And Solutions**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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