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Some useful references. Book: An Introduction to Chemical Kinetics (Margaret Wright, 2004) - get Book chapter: Rates and Mechanism of Chemical Reactions (Chapter 22 of Chemical Principles, 3rd Ed (1979) by Dickerson, Gray, and Haight.) Perfectly good for first-year general chemistry courses. Online book chapter: Reaction Rates (Concept Development Studies in Chemistry, John Hutchinson)

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4.8. The rate of the chemical reaction doubles for an increase of 10 K in absolute temperature from 298 K. Calculate  $E_a$ . Ans.

4.9. The activation energy for the reaction,  $2 \text{HI}(\text{g}) \rightarrow \text{H}_2 + \text{I}_2(\text{g})$  is  $209.5 \text{ kJ mol}^{-1}$  at 581 K. Calculate the fraction of molecules of reactants having energy equal to or greater than activation energy?

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Receptor-ligand kinetics , a branch of chemical kinetics in which the kinetic species are defined by different non-covalent bindings and/or conformations of the molecules involved, which are denoted as receptor(s ...

## **Kinetics - Wikipedia**

In 1901 he was awarded by the first Nobel Prize in Chemistry "in recognition of the extraordinary services he has rendered by the discovery of the laws of chemical dynamics and osmotic pressure in solutions". After van 't Hoff, chemical kinetics deals with the experimental determination of reaction rates from which rate laws and rate constants are derived.

## **Chemical kinetics - Wikipedia**

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Chapter: Chapter 4 – Chemical Kinetics. NCERT Solutions for Class 12 Chemistry Chapter 4 Chemical Kinetics. Class XII Chemistry Chapter 4 Chemical Kinetics NCERT Solution is given below. Question 4.1: For the reaction  $R \rightarrow P$ , the concentration of a reactant changes from 0.03 M to 0.02 M in 25 minutes. Calculate the average rate of reaction ...

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II. Fundamentals of Collision Theory. The objectives of the development that follows are to give the reader insight as to why

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the rate laws depend on the concentration of the reacting species (i.e.,  $r_A = k C_A C_B$ ) and why the temperature dependence is the form of the Arrhenius law,  $k = A e^{-E_a/RT}$ . To achieve this goal we consider the reaction of two molecules in the gas phase

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