

Chapter 1

CHEMICAL REACTIONS AND EQUATIONS

Objective Questions

Multiple Choice Questions

- Which of the statements about the reaction below are incorrect?
$$2\text{PbO(s)} + \text{C(s)} \longrightarrow 2\text{Pb(l)} + \text{CO}_2\text{(g)}$$
 - (i) Lead is getting reduced
 - (ii) Carbon dioxide is getting oxidised
 - (iii) Carbon is getting oxidised
 - (iv) Lead oxide is getting reduced

(a) (i) and (ii) (b) (i) and (iii)
(c) (i), (ii) and (iii) (d) all of these.
- $$\text{Fe}_2\text{O}_3 + 2\text{Al} \longrightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$$

The above reaction is an example of a— (2024)

 - (a) combination reaction
 - (b) double displacement reaction
 - (c) decomposition reaction
 - (d) displacement reaction.
- What happens when dilute hydrochloric acid is added to iron filings? (2022)

 - (a) Hydrogen gas and iron chloride are produced
 - (b) Chlorine gas and iron hydroxide are produced
 - (c) No reaction takes place
 - (d) Iron salt and water are produced.

- In the reaction $2\text{FeCl}_2 + \text{Cl}_2 \longrightarrow 2\text{FeCl}_3$ Chlorine is a—

 - (a) Reducing agent
 - (b) Oxidizing agent
 - (c) Catalyst
 - (d) Inert medium.

- Rancidity can be prevented in food items by—

 - (a) Mixing antioxidant
 - (b) Keeping in refrigerator
 - (c) Keeping away from light
 - (d) All of these.

- Which among the following is not an oxidizing agent?

 - (a) Oxygen
 - (b) Conc. Sulphuric acid
 - (c) Chlorine
 - (d) Hydrogen.

- Which among the following gases are used to keep the oily food items fresh?

 - (a) Carbon dioxide and Oxygen
 - (b) Nitrogen and helium
 - (c) Helium and Oxygen
 - (d) Nitrogen and Oxygen.

- Chemically rust is—

 - (a) Hydrated ferrous oxide
 - (b) Ferric oxide
 - (c) Hydrated ferric oxide
 - (d) None of these.

- An exothermic reaction in which glucose combines with oxygen in the cells of our body and provides energy—

 - (a) Respiration
 - (b) Digestion
 - (c) Excretion
 - (d) None of these.

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Clifford Lane



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Elements of Chemical Reaction Engineering H. Scott Fogler, 2020-08-18 The Definitive Guide to Chemical Reaction Engineering Problem Solving With Updated Content and More Active Learning For decades H Scott Fogler's *Elements of Chemical Reaction Engineering* has been the world's dominant chemical reaction engineering text This Sixth Edition and integrated Web site deliver a more compelling active learning experience than ever before Using sliders and interactive examples in Wolfram Python POLYMATH and MATLAB students can explore reactions and reactors by running realistic simulation experiments Writing for today's students Fogler provides instant access to information avoids extraneous details and presents novel problems linking theory to practice Faculty can flexibly define their courses drawing on updated chapters problems and extensive Professional Reference Shelf web content at diverse levels of difficulty The book thoroughly prepares undergraduates to apply chemical reaction kinetics and physics to the design of chemical reactors And four advanced chapters address graduate level topics including effectiveness factors To support the field's growing emphasis on chemical reactor safety each chapter now ends with a practical safety lesson Updates throughout the book reflect current theory and practice and emphasize safety New discussions of molecular simulations and stochastic modeling Increased emphasis on alternative energy sources such as solar and biofuels Thorough reworking of three chapters on heat effects Full chapters on nonideal reactors diffusion limitations and residence time distribution About the Companion Web Site umich.edu/elements/6e/index.html Complete PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software including POLYMATHTM MATLABTM Wolfram MathematicaTM AspenTechTM and COMSOLTM Interactive learning resources linked to each chapter including Learning Objectives Summary Notes Web Modules Interactive Computer Games Solved Problems FAQs additional homework problems and links to Learncheme Living Example Problems unique to this book that provide more than 80 interactive simulations allowing students to explore the examples and ask what if questions Professional Reference Shelf which includes advanced content on reactors weighted least squares experimental planning laboratory reactors pharmacokinetics wire gauze reactors trickle bed reactors fluidized bed reactors CVD boat reactors detailed explanations of key derivations and more Problem solving strategies and insights on creative and critical thinking Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details *Prentice Hall Chemistry* Antony C. Wilbraham, 2008 [Focus on Physical Science California Edition](#) Michael J. Padilla, 2007 *University Physics: Australian edition* Hugh D Young, Roger A Freedman, Ragbir Bhathal, 2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education When the first edition of *University Physics* by Francis W Sears and Mark W Zemansky was published in 1949 it was revolutionary among calculus based physics textbooks in its emphasis on the fundamental principles of physics and how to apply them The success of *University Physics* with generations of several million students and educators around the world is

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