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the author about

problems,  
principles,

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concepts, and

theories in

chemical kinetics.

The book tackles

the nature of

chemical kinetics,

reaction rates and

order, and

thermodynamic

consistency of rate

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laws. The effects of temperature on kinetics, prediction of reaction rates, gas-phase reactions, and controlled reactions are also discussed. The text also explains the reactions catalyzed by

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enzymes; reactions

Problems

in solids and

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heterogenous

systems; oxidation

of metals; catalysis

of reactions by

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methods for

different reaction

rates. The

monograph is

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textbook for

Problems

undergraduate

Answers

students in

chemistry who are

currently taking

up kinetics, as it is

an easily

understood and

concise book that

can also be used

as reference.

The authors

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explain at length

the principles of

chemical kinetics

and approaches to

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and maple.

Mathematics is

crucial in

determining

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correlations in

Problems  
chemical

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processes and

requires various

numerical

approaches. Often

significant issues

with mathematical

formalizations of

chemical problems

arise and many

kinetic problems

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can't be solved

without

computers.

Numerous

problems

encountered in

solving kinetics

calculations with

detailed

descriptions of the

numerical tools

are given. Special



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attention is given  
Problems  
to electrochemical

Answers  
reactions, which

fills a gap in

existing texts not

covering this topic

in detail. The

material

demonstrates how

these suites

provide quick and

precise behavior

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predictions for a  
system over time

(for postulated me-  
chanisms). Example

s, i.e., oscillating  
and non-

isothermal

reactions, help  
explain the use of

mathcad more  
efficiently. Also

included are the

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authors' own

research toward

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textbook. Each

chapter contains

Overview, Topical

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Common Mistakes,

which are all

keyed to the

textbook for easy

cross reference.

The Overview

section

summarizes the

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content of the

chapter and

includes a

comprehensive

listing of terms, a

summary of

general concepts,

and a list of

numerical

exercises, while

the Topical

Outline provides

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the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook. The Fill-in, Multiple Choice are two sets of questions that include every concept and

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numerical exercise

Problems

introduced in the

Answers

chapter and the

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provides

developed

exercises to apply

the new concepts

in the chapter to

particular

examples. The

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section is designed to help avoid some of the errors that students make in their effort to learn chemistry, while the Practical Test section includes matching and multiple choice questions that



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comprehensively

Problems

cover almost every

Answers

concept and

numerical problem

in the chapter.

After briefly

dealing with an

overview of

chemistry, this

book goes on

exploring the

concept of matter,

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energy,

measurement,

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atom, periodic

table, and

chemical bonding.

These topics are

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discussions on

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compounds;

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Problems

and the mole;

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reactions;

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properties of a

liquid. The

remaining

chapters examine

the solutions;

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and equilibrium;

and nuclear,

organic, and

biological

chemistry. This

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Problems  
Answers  
chemistry teachers  
and students.

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teaches the  
principles  
underlying  
modern chemical  
kinetics in a clear,  
direct fashion,  
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examples to

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*Drinking Water Safety:*

*Page 23/138*

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*Basic Principles and Applications, examines the technical and scientific, as well as regulatory, ethical, and emerging issues of pollution prevention, sustainability, and optimization for the production and management of safe drinking water to cope with environmental pollution, population*



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*growth, increasing*

*demand, terrorist threats,*

*and climate change*

*pressures. It presents a*

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*wastewater treatment*

*technologies, in addition*

*to the latest processes.*

*Features include: [?]*

*Provides a summary of*

*current and future of*

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*and availability. [?]*

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*illustrative examples and  
case studies that*

*complement the text*

*throughout, as well as an*

*appendix with sections on*

*units and conversion*

*constants.*

*The thoroughly revised  
& updated 9th Edition of*

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*Chemistry is developed*

*on the objective pattern*

*following the chapter*

*plan as per the NCERT*

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*books of class 11 and  
12. The book has been  
rebranded as GO TO*

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been designed. • The  
complete book has  
contains 31 Chapters. •  
In the new structure the  
book is completely  
revamped with every  
chapter divided into 2-4  
Topics. Each Topic  
contains Study Notes*

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along with a DPP (Daily  
Practice Problem) of

15-20 MCQs. • This is

followed by a Revision

Concept Map at the end

of each chapter. • The

theory is followed by a

set of 2 Exercises for

practice. The first

exercise is based on

Concepts & Application.

It also covers NCERT

based questions. • This is

followed by Exemplar &

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*past 8 year NEET (2013*

*- 2021) questions. • In*

*the end of the chapter a*

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*Problem Sheet) of 45*

*Quality MCQs is*

*provided. • The solutions*

*to all the questions have*

*been provided*

*immediately at the end of*

*each chapter.*

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*the science of chemistry.*

Problems  
Answers  
*Simultaneously, examples  
and questions have been*

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*environmental,*

*engineering, biological,*

*pharmaceutical and*

*medical sciences.*

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*level learning and*

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*order.*

*James House's revised*

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*Kinetics provides a clear*

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*kinetic reactions in gas,*

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*The entire text has been*

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*an additional chapter on*

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*chemistry, biochemical*

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***most common***

***and unidentified***

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***approximations in  
solving rate***

***equations such as***

***the pre-***

***equilibrium or***

***the steady-state***

***approach are still***

***valid and***

***necessary as they***

***concern the***

***information***

***content of***

***measured kinetic***

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phase transfer

catalysis, inhibition

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reactions, and

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*sections: (i)*

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*Modeling and*

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*"Kinetics of*

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*and (iii)*

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*Techniques." The*

*first section*

*consists of six*

*chapters with a*

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topics like**

**activation**

**energy and**

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**changes; the**

**mechanism of  
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**radical, hydrate**

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hydrogen atom;  
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to bridge the  
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is presented in  
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provides a  
detailed  
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**methods for**

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**equilibrium,**

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**chemical**

**kinetics. The**

**text directly**

**addresses two**

**required ABET**

**program outcomes**

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**in environmental  
engineering:**

**"...chemistry**

**(including  
stoichiometry,  
equilibrium, and  
kinetics)" and**

**"material and  
energy balances,  
fate and**

**transport of  
substances in  
and between air,  
water, and soil**



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*phases". The book is very*

*student*

*friendly, with each chapter beginning with an introduction and ending with a summary that reviews the chapter's main points;*

*important terms are defined in*

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Problems

*summarized, and*

*many thought-*

*provoking*

*discussion*

*questions,*

*worked examples*

*and end of*

*chapter problems*

*are included.*

*Each part of the*

*text begins with*

*a case study, a*

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is addressed in  
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**Competitive**  
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**takes**

**enormous**

**efforts & time**

**on the part of**

**a student to**

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**proficiency**

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**upon, that**

**eventually**

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