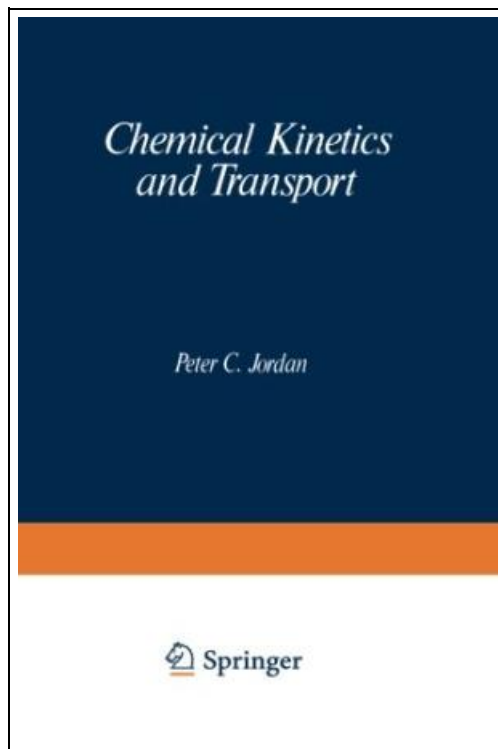


Chemical Kinetics and Transport



Filesize: 9.35 MB

Reviews

This is actually the finest ebook we have go through until now. It is written in straightforward words and phrases instead of difficult to understand. It has been designed in a remarkably straightforward way and is particularly just following it finished reading through this book by which basically changed me, change the way in my opinion.

(Gillian Wisoky)

CHEMICAL KINETICS AND TRANSPORT

[DOWNLOAD](#)

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book began as a program of self-education. While teaching under graduate physical chemistry, I became progressively more dissatisfied with my approach to chemical kinetics. The solution to my problem was to write a detailed set of lecture notes which covered more material, in greater depth, than could be presented in undergraduate physical chemistry. These notes are the foundation upon which this book is built. My background led me to view chemical kinetics as closely related to transport phenomena. While the relationship of these topics is well known, it is often ignored, except for brief discussions of irreversible thermodynamics. In fact, the physics underlying such apparently dissimilar processes as reaction and energy transfer is not so very different. The intermolecular potential is to transport what the potential-energy surface is to reactivity. Instead of beginning the sections devoted to chemical kinetics with a discussion of various theories, I have chosen to treat phenomenology and mechanism first. In this way the essential unity of kinetic arguments, whether applied to gas-phase or solution-phase reaction, can be emphasized. Theories of rate constants and of chemical dynamics are treated last, so that their strengths and weaknesses may be more clearly highlighted. The book is designed for students in their senior year or first year of graduate school. A year of undergraduate physical chemistry is essential preparation. While further exposure to chemical thermodynamics, statistical thermodynamics, or molecular spectroscopy is an asset, it is not necessary. | 1. Kinetic Theory of Gases-Equilibrium.- 1.1. Introduction.- 1.2. The Maxwell-Boltzmann Distribution of Velocities.- 1.3. Determination of Pressure.- 1.4. Properties of the Maxwell Distribution.- 1.5. The Molecular Flux and Effusion of Gases.- Problems.- General References.- 2. Kinetic Theory of Gases-Transport.- 2.1. Introduction.- 2.2. Mean Free Path.- 2.3. Collision Frequency.- 2.4. Macroscopic Equations of...

[Read Chemical Kinetics and Transport Online](#)[Download PDF Chemical Kinetics and Transport](#)

See Also



Preventing Childhood Eating Problems : A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts

Book Condition: Brand New. Book Condition: Brand New.

[Download ePub »](#)



Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback

Book Condition: Brand New. Book Condition: Brand New.

[Download ePub »](#)



3-minute Animal Stories: A Special Collection of Short Stories for Bedtime

Anness Publishing. Paperback. Book Condition: new. BRAND NEW, 3-minute Animal Stories: A Special Collection of Short Stories for Bedtime, Nicola Baxter, Andy Everitt-Stewart, This is a very special selection of children's stories, specially devised to...

[Download ePub »](#)



Christmas Stories: Christmas Stories, Funny Christmas Jokes, and Christmas Coloring Book!

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Christmas Stories, Christmas Jokes, and a Coloring Book!Christmas is almost...

[Download ePub »](#)



A Frosty Christmas: Christmas Stories, Funny Jokes, and Christmas Coloring Book!

Createspace Independent Publishing Platform, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Christmas Stories, Christmas Coloring Book, Jokes, Games, and More!Christmas is...

[Download ePub »](#)