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Titolo	Defense health care [[electronic resource]] : under TRICARE, children's hospitals paid more than other hospitals after accounting for patient complexity : report to congressional committees
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Titolo	Chemical Kinetics and Reaction Dynamics
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (670 p.)
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Nota di contenuto	Title Page; Bibliographical Note; Copyright Page; Dedication; Table of Contents; Preface; Introduction - A User's Guide to Chemical Kinetics and Reaction Dynamics; Errata; 1 - Kinetic Theory of Gases; 1.1 INTRODUCTION; 1.2 PRESSURE OF AN IDEAL GAS; 1.3 TEMPERATURE AND ENERGY; 1.4 DISTRIBUTIONS, MEAN VALUES, AND DISTRIBUTION FUNCTIONS; 1.5 THE MAXWELL DISTRIBUTION OF SPEEDS; 1.6 ENERGY DISTRIBUTIONS; 1.7 COLLISIONS: MEAN FREE PATH AND COLLISION NUMBER; 1.8 SUMMARY; appendix 1.1; appendix 1.2; appendix 1.3; appendix 1.4; suggested readings; problems; 2 - The Rates of Chemical Reactions 2.1 INTRODUCTION2.2 EMPIRICAL OBSERVATIONS: MEASUREMENT OF REACTION RATES; 2.3 RATES OF REACTIONS: DIFFERENTIAL AND INTEGRATED RATE LAWS; 2.4 REACTION MECHANISMS; 2.5 HOMOGENEOUS CATALYSIS; 2.6 FREE RADICAL REACTIONS: CHAINS AND BRANCHED CHAINS; 2.7 DETERMINING MECHANISMS FROM RATE LAWS; 2.8 SUMMARY; suggested readings; problems; 3 - Theories of

Chemical Reactions; 3.1 INTRODUCTION; 3.2 POTENTIAL ENERGY SURFACES; 3.3 COLLISION THEORY; 3.5 THERMODYNAMIC INTERPRETATION OF ACT; 3.6 SUMMARY; suggested readings; problems; 4 - Transport Properties; 4.1 INTRODUCTION
4.2 THE FUNCTIONAL FORM OF THE TRANSPORT EQUATIONS4.3 THE MICROSCOPIC BASIS FOR THE TRANSPORT LAWS; 4.4 THERMAL CONDUCTIVITY; 4.5 VISCOSITY; 4.6 DIFFUSION; 4.7 TIME-DEPENDENT TRANSPORT; 4.8 SUMMARY; appendix 4.1 - The Poiseuille Formula; suggested readings; problems; 5 - Reactions in Liquid Solutions; 5.1 INTRODUCTION; 5.2 THE CAGE EFFECT, FRICTION, AND DIFFUSION CONTROL; 5.3 REACTIONS OF CHARGED SPECIES IN SOLUTION: IONIC STRENGTH AND ELECTRON TRANSFER; 5.3.1 Reaction Rates and Ionic Strength; 5.4 EXPERIMENTAL TECHNIQUES; 5.5 SUMMARY; appendix 5.1 appendix 5.2 - Diffusion with an Electrostatic Potentialsuggested readings; problems; 6 - Reactions at Solid Surfaces; 6.1 INTRODUCTION; 6.2 ADSORPTION AND DESORPTION; 6.3 REACTIONS AT SURFACES: CATALYSIS; 6.4 SURFACE DIFFUSION; 6.5 ADVANCED TOPICS IN SURFACE REACTIONS; 6.6 SUMMARY; appendix 6.1; suggested readings; problems; 7 - Photochemistry; 7.1 INTRODUCTION; 7.2 ABSORPTION AND EMISSION OF LIGHT; 7.3 PHOTOPHYSICAL PROCESSES; 7.4 ATMOSPHERIC CHEMISTRY; 7.5 PHOTODISSOCIATION DYNAMICS; 7.6 SUMMARY; suggested readings; problems; 8 - Molecular Reaction Dynamics; 8.1 INTRODUCTION
8.2 A MOLECULAR DYNAMICS EXAMPLE8.3 MOLECULAR COLLISIONS-A DETAILED LOOK; 8.4 MOLECULAR SCATTERING; 8.5 POTENTIAL ENERGY SURFACES; 8.6 MOLECULAR ENERGY TRANSFER; 8.7 MOLECULAR REACTION DYNAMICS-SOME EXAMPLES; 8.8 SUMMARY; suggested reading; problems.; Answers and Solutions to Selected Problems; Index

Sommario/riassunto

This text teaches the principles underlying modern chemical kinetics in a clear, direct fashion, using several examples to enhance basic understanding. It features solutions to selected problems, with separate sections and appendices that cover more technical applications.Each chapter is self-contained and features an introduction that identifies its basic goals, their significance, and a general plan for their achievement. This text's important aims are to demonstrate that the basic kinetic principles are essential to the solution of modern chemical problems, and to show how the underlying qu