



Introduction to Physical Chemistry

By Andreas Hofmann

Structural Chemistry Program, Griffith University, United States, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.This text provides an introduction to physical chemistry, covering the fundamentals of thermodynamics, kinetics, electrochemistry, transport and catalysis. The content of this text is delivered as one-semester course in the second year at Griffith University (Nathan, Australia) and intended for students in the disciplines of chemistry, biochemistry, engineering and neighbouring disciplines. Table of Contents I. Physico-chemical data and resources 1 Periodic table of the elements 2 Resources and databases 3 Units and constants 4 Summary of important formulae and equations II. Thermodynamics 1 Motivation, revision and introduction of basic concepts 2 Free energy 3 Properties of real systems 4 Exercises III. Mixtures and phases 1 Why do or don t things mix 2 Liquids 3 Phase equilibria 4 Thermodynamic aspects of phase transitions 5 Mixtures of volatile liquids 6 Exercises IV. Solutions of electrolytes 1 Fundamental concepts 2 Electrochemical reactions 3 Electrolytes in solution 4 Exercises V. Molecules in motion 1 Transport processes 2 Molecular motion in liquid solutions 3 Exercises VI. Kinetics 1 Introduction 2 Reaction rates, rate constants and orders of reaction...



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