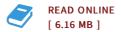


Introduction to Physical Chemistry

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 onesemester 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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