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Chemistry 3710 Spring 2012

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Brown Hall Instructor: Dr. Marina

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statistical thermodynamics for understanding the molecular motion, chemical reactions, and kinetics.

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this void, but I disagree. If possible, an introductory course in physical chemistry should be a prerequisite for a course in food physical chemistry—the former providing a sound back-ground in the principles of physical chemistry and the latter focusing

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emergence of matter that carries information, i.e. the origin of life, a physicochemical process of unique importance. The aim is to show the broad scope and coherence of physical chemistry.

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physical chemistry fun and demonstrates why so many find it a stimulating and rewarding profession." Professor Edel Wasserman, President (1999) of the American Chemical Society

This book is specially designed for

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B.Sc. Chemistry Honours Degree students. However, it is believed to be helpful to post-graduate students also. It covers by and large physical chemistry part of the Chemistry Honours syllabus taught in different Indian Universities. Elaborate and lucid

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discussion of each chapter is the strength of this book. Questions and numerical problems are also included at the end of almost every chapter. Strenuous effort has been given to derive different mathematical equations as well as to handle quantum mechanics using

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undergraduate level. The book contains 20 chapters, covering the following topics: -

Thermodynamics is thoroughly discussed in this book, covering 1st law, 2nd law and 3rd law of thermodynamics, their

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another important part of chemistry since it covers reaction rate, order of a reaction, theory behind the reaction rate etc. Catalyst is also an important aspect since it has profound influence on reaction rate. Type of catalyst and mechanism of

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different catalyzed reactions are discussed in detail. A chemical reaction reaches an equilibrium state if carried out in a closed container. However, the equilibrium is sufficiently influenced by other parameters, like pressure, temperature etc. -



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Application of thermodynamics in electrochemical cell is also discussed. Concept of buffer solutions, pH and indicators are discussed in detail. - Phase equilibria is another important part

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of physical chemistry. The chapter includes details of phase rule, phase diagram, applications, different types of heterogeneous equilibrium system etc. -

Colligative properties of dilute solutions are well documented, covering, Henry's law, Raoult's law

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of lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure etc. - Surface chemistry and properties of colloidal solutions are very much important in different chemical industries. These two sections are

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well discussed in this book. It includes details of derivation of different laws, theories behind the adsorption, stability of colloidal solutions etc. - Nuclear reactions are different from chemical reactions and energy, related to nuclear reactions is enormous,

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much higher than any chemical reaction. Study of different nuclear reactions including natural radioactivity, artificial radioactivity etc. and kinetics of nuclear reactions are well discussed in this book. Different areas of applications of nuclear reactions

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are also covered in this book. -

Another important aspect of chemical reactions is chemical bonding. The book covers details of covalent bonding including quantum numbers, overlapping of atomic orbitals, molecular orbitals. Besides that ionic bonding and

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other types of bonding are also discussed in detail. -

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