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the molecule on the front cover is paclitaxel c<sub>47</sub>h<sub>51</sub>no<sub>14</sub> a chemotherapy drug that has been successful in treating breast lung and ovarian cancer it is extracted from the bark of the pacific yew tree taxus brevifolia unfortunately the bark of a 100 year old pacific yew tree yields about 3 kg of bark and only 300 mg of paclitaxel barely enough for a single dose of the drug taxol

the aim and purpose of this book is a survey of our actual basic knowledge of electrolyte solutions it is meant for chemical engineers looking for an introduction to this field of increasing interest for various technologies and for scientists wishing to have access to the broad field of modern electrolyte chemistry

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understanding chemical reactivity has been the permanent concern of chemists from time immemorial if we were able to understand it and express it quantitatively there would practically remain no unsolved mystery and reactions would be fully predictable with their products and rates and even side reactions the beautiful developments of thermodynamics through the 19th century supplied us with the knowledge of the

way a reactions progresses and the statistical view initiated by gibbs has progressively led to an understanding closer to the microscopic phenomena but it was always evident to all that these advances still left our understanding of chemical reactivity far behind our empirical knowledge of the chemical reaction in its practically infinite variety the advances of recent years in quantum chemistry and statistical mechanics enhanced by the present availability of powerful and fast computers are very fast changing this picture and bringing us really close to a microscopic understanding of chemical equilibria reaction rates etc this is the reason why our society encouraged a few years ago the initiative of professor savo bratos who with a group of french colleagues prepared an impressive study on reactivite chimique en phase liquide a prospective report which was jointly published by the societe fran

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