

Section 11 1 Describing Chemical Reactions Pages 321329

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materials react together sometimes with explosive results this book tells you everything you need to know about chemical reactions there are loads of photos and facts this will help you to get to grips with the topic and find answers quickly includes exiting photos bite sized chunks of information and tips for further research that will help with your homework

how life can emerge in a lifeless environment is one of the major open scientific challenges this book pays particular attention to self organization phenomena that might have led to the appearance of the first protocells i e cell like structures much simpler than present day cells endowed with some primitive kinds of metabolism and heredity after a brief description of the known facts and main hypotheses mathematical and computational models of protocells are discussed they should complement laboratory experiments allowing rapid explorations of the dynamical properties of several alternative types of protocell architectures given the great uncertainties about the actual origin of life it seems impossible to provide a detailed and complete reconstruction of the first life forms it is therefore necessary to identify plausible pathways highlighting the main physical and chemical processes towards life that can take place generic models which are abstract enough to encompass different specific hypotheses are particularly relevant as they allow one to identify properties which are common to several different detailed scenarios they are widely discussed and a particular case is described in detail namely that of synchronization between the rate of molecular replication and that of reproduction of the whole protocell which is a necessary condition for sustainable growth of a population and a prerequisite for further evolution using generic models it is shown that such synchronization spontaneously emerges in successive generations under very general assumptions the book also contains extensive descriptions of the emergence of long polymers of autocatalytic sets and of the interactions between protocells and their environments the book is not meant only for specialists but also for scientists working in different fields as well as for laymen with an interest in science it requires a basic knowledge of chemistry and biology and an interest in simulation models

atomic layer deposition formerly called atomic layer epitaxy was developed in the 1970s to meet the needs of producing high quality large area fl at displays with perfect structure and process controllability nowadays creating nanomaterials and producing nanostructures with structural perfection is an important goal for many applications in nanotechnology as ald is one of the important techniques which offers good control over the surface structures created it is more and more in the focus of scientists the book is structured in such a way to fi t both the need of the expert reader due to the systematic presentation of the results at the forefront of the technique and their applications and

the ones of students and newcomers to the field through the first part detailing the basic aspects of the technique this book is a must have for all materials scientists surface chemists physicists and scientists in the semiconductor industry

full of examples based on case studies from a variety of industries computer simulated plant design for waste minimization pollution prevention discusses preventing pollution and minimizing waste using computer simulation programs the author examines the computer technologies used in the field including the design and analysis of computer aided flow sheets with this book readers will understand how to use computer technology to design plants that generate little or no pollution and how to use information generated by computer simulations for technical data in proposals and presentations and as the basis for making policy decisions

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