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James A. Kent



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Concepts of Modern Catalysis and Kinetics I. Chorkendorff, J. W. Niemantsverdriet, 2006-03-06 Until now the literature has offered a rather limited approach to the use of fundamental kinetics and their application to catalytic reactions Subsequently this book spans the full range from fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies to their equivalent large scale industrial production processes The result is key knowledge for students at technical universities and professionals already working in industry such an enterprise will be of great value to the community to professionals as well as graduate and undergraduate students attempting to move into the field of modern catalysis and kinetics I strongly recommend you publish this book based on the proposal Prof Dr G A Samorjai University of California Both authors are well respected specialists with a very long record of original top quality work and an international reputation A book from these authors will be considered an authoritative piece of work I definitely support this project and I am looking forward to use the book when published Prof Dr D E Resasco University of Oklahoma I wholly support the proposed project The authors are very competent young colleagues and there is a real need for such a textbook Prof Dr G Ertl Fritz Haber Institut Max Planck Gesellschaft Berlin

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design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective **Electrocatalysis** ,2006

Handbook of Industrial Chemistry and Biotechnology James A. Kent,2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins *In-situ Characterization of Heterogeneous Catalysts* José A. Rodriguez,Jonathan C. Hanson,Peter J. Chupas,2013-04-17 Helps researchers develop new catalysts for sustainable fueland chemical production Reviewing the latest developments in the field this bookexplores the in situ characterization of heterogeneous catalysts enabling readers to take full advantage of the sophisticatedtechniques used to study heterogeneous catalysts and reactionmechanisms In using these techniques readers can learn to improvethe selectivity and the performance of catalysts and how to preparecatalysts as efficiently as possible with minimum waste In situ Characterization of Heterogeneous Catalysts featurescontributions from leading experts in the field of catalysis Itbegins with an introduction to the fundamentals and thencovers Characterization of electronic and structural properties ofcatalysts using X ray absorption fine structure spectroscopy Techniques for structural characterization based on X raydiffraction neutron scattering and pair distribution functionanalysis Microscopy and morphological studies Techniques for studying the interaction of adsorbates withcatalyst surfaces including infrared spectroscopy Ramanspectroscopy EPR and moderate pressure XPS Integration of techniques that provide information on thestructural properties of catalysts with techniques that facilitatethe study of surface reactions Throughout the book detailed examples illustrate how techniquesfor studying catalysts and reaction mechanisms can be applied tosolve a broad range of problems in heterogeneous catalysis Detailed figures help readers better understand how and why thetechniques discussed in the book work At the end of each chapter an extensive set of references leads to the

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