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Applied Industrial Catalysis, Volume 1 provides a practical

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description of catalysis by industrial scientists. This book provides information pertinent to industrial catalysis, which is influenced by science, business, economic, markets, and politics. Organized into 10 chapters, this volume starts with an overview of the significance of industrial catalysis and its effect on human lifestyle and environment. This text then describes how to take a laboratory catalyst to successful commercialization with minimum problems. Other chapters consider in detail two major refinery processes, namely, hydrotreating and reforming. The reader is introduced to the specific processes for polyethylene and polypropylene manufacture. This book reviews as well ethylene oxide synthesis and explains oxychlorination of ethylene to ethylene dichloride. The final chapter reviews methanol

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carbonylation to acetic acid, which is produced by continuously reacting methanol and carbon monoxide in a homogeneous catalytic reactor at Industrial scientists and process engineers will find this book useful.

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that it can be covered in 40 hours of lecture. Also an excellent resource and reference for persons working in the chemical and related industries, it has sections on all important technologies used by these industries: a one-step source to answer most questions on practical, applied chemistry. Young scientists and engineers just entering the workforce will find it especially useful as a readily available handbook to prepare them for a type of chemistry quite different than they have seen in their traditional coursework, whether graduate or undergraduate.

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and interconnectedness to other areas. The premise of this book, therefore, is to offer both a comprehensive understanding of applied science and engineering as a whole and a thorough knowledge of individual subjects. This approach appropriately conveys the basic fundamentals, state-of-the-art technology, and applications of the involved disciplines, and further encourages scientific collaboration among researchers. This volume emphasizes the intersection of chemistry, math, physics, and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas, including the life chemistry, environmental sciences, geosciences, and materials sciences. The applications from these multidisciplinary fields illustrate methods that can be

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The aim of this book is to provide both a rigorous view and a more practical, understandable view of industrial chemistry and biochemical physics. This book is geared toward readers with both direct and lateral interest in the discipline. This volume is structured into different parts devoted to

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industrial chemistry and biochemical physics and their applications. Every section of the book has been expanded, where relevant, to take account of significant new discoveries and realizations of the importance of key concepts. Furthermore, emphases are placed on the underlying fundamentals and on acquisition of a broad and comprehensive grasp of the field as a whole. With contributions from experts from both the industry and academia, this book presents the latest developments in the identified areas. This book incorporates appropriate case studies, explanatory notes, and schematics for more clarity and better understanding. This new book:

- Highlights some important areas of current interest in biochemical physics and chemical processes
- Focuses on topics with

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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.

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