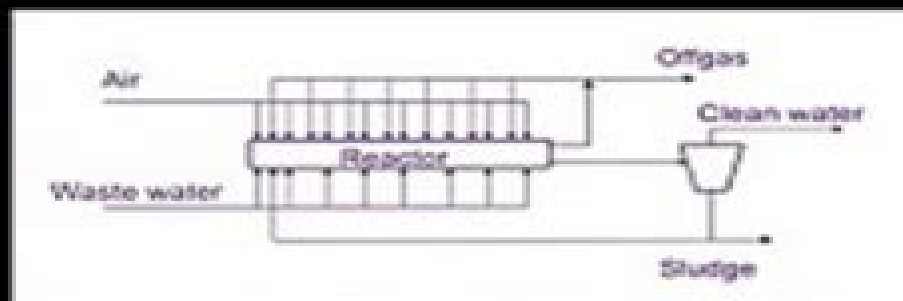


RE-ENGINEERING THE CHEMICAL PROCESSING PLANT

Process Intensification



edited by
Andrzej Stankiewicz
Jacob A. Moulijn

Re Engineering The Chemical Processing Plant

Jiyuan Zhang



Re Engineering The Chemical Processing Plant:

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Chemical Process Retrofitting and Revamping Gade Pandu Rangaiah, 2016-01-22 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these feature make the book useful to industrial engineers researchers and students

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second edition of the book includes examples and exercises for each design method which makes it very suitable for teaching purposes. The book is furthermore of interest to industrial process and product developers for many industry branches as it provides methods for design modelling and experimental validation for each innovation stage. It is also very useful for R D managers as it provides guidelines for essential activities in each innovation stage: discovery, concept, feasibility, development, detailed engineering, leading to successful implementations of new processes and new products.

Process Chemistry of Petroleum Macromolecules Irwin A. Wiehe, 2008-06-20. Although there is a shortage of light petroleum, there is plenty of heavy petroleum rich in macromolecules available, creating an increasing interest for processes that can convert heavy oils to light oils. *Process Chemistry of Petroleum Macromolecules* provides the scientific basis for such processes, presenting methods to determine improvement potential. Topics include characterization, thermal kinetics, phase behavior, and separation. Revealing that the science of petroleum macromolecules is simpler and more exciting than imagined, it also discusses macromolecules that self-associate, liquid crystalline phases, reactions triggered by phase separation, and both dispersed and dissolved solutes.

Polymer Processing Instabilities Savvas G. Hatzikiriakos, Kalman B. Migler, 2004-11-30. *Polymer Processing Instabilities: Control and Understanding* offers a practical understanding of the various flows that occur during the processing of polymer melts. The book pays particular attention to flow instabilities that affect the rate of production and the methods used to prevent and eliminate flow instabilities in order to increase product.

Guidelines for Inherently Safer Chemical Processes CCPS (Center for Chemical Process Safety), 2019-10-16. Since the publication of the second edition, several United States jurisdictions have mandated consideration of inherently safer design for certain facilities. Notable examples are the inherently safer technology (IST) review requirement in the New Jersey Toxic Chemical Prevention Act (TCPA) and the Inherently Safer Systems Analysis (ISSA) required by the Contra Costa County, California Industrial Safety Ordinance. More recently, similar requirements have been proposed at the U.S. Federal level in the pending EPA Risk Management Plan (RMP) revisions. Since the concept of inherently safer design applies globally, with its origins in the United Kingdom, the book will apply globally. The new edition builds on the same philosophy as the first two editions but further clarifies the concept with recent research, practitioner observations, added examples, and industry methods and discussions of security and regulatory issues. *Inherently Safer Chemical Processes* presents a holistic approach to making the development, manufacture, and use of chemicals safer. The main goal of this book is to help guide the future state of chemical process evolution by illustrating and emphasizing the merits of integrating inherently safer design, process-related research, development, and design into a comprehensive process that balances safety, capital, and environmental concerns throughout the life cycle of the process. It discusses strategies of how to substitute more benign chemicals at the development stage, minimize risk in the transportation of chemicals, use safer processing methods at the manufacturing stage, and decommission a manufacturing plant so that what is left behind does not endanger the public or environment.

Introduction to Process Control Jose A.

Romagnoli,Ahmet Palazoglu,2005-07-25 Improvements in software instrumentation and feedback control as well as deepening linkages between fundamental aspects of process technology have vastly changed the practice of industrial process control Newcomers to the field must have a strong understanding of the new demands and capabilities of modern process control operations Reflecting these changes Introduction to Process Control infuses traditional topics with industry based practices that provide more integrated process operation control and information systems The authors adopt a thoughtfully conceived approach that follows a Continuing Problem throughout the text adding new concepts and strategies to the example which culminates in a complete control design strategy This fully realized system is implemented in MATLAB with software downloads available from the CRC Web site This approach not only provides seamless continuity but also addresses the plantwide control problem and engenders hands on step by step understanding of how the concepts apply to real processes The book introduces data processing and reconciliation along with process monitoring as integral components of overall control system architecture Along with an introduction to modern architectures of industrial computer control systems Introduction to Process Control offers unique and unparalleled coverage of the expanded role of process control in modern industry from modeling the process to implementing a plant wide system Hydroprocessing of Heavy Oils and Residua

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