1. Record Nr. UNISA996212702603316

Titolo	Guidelines for chemical reactivity evaluation and application to process design [[electronic resource]]
Pubbl/distr/stampa	New York, N.Y., : Center for Chemical Process Safety of the American Institute of Chemical Engineers, c1995
ISBN	1-282-81730-2 9786612817304 0-470-93805-6 1-59124-629-6 0-470-93804-8
Descrizione fisica	1 online resource (240 p.)
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Soggetti	Chemical processes Reactivity (Chemistry)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 183-199) and index.
Nota di contenuto	Guidelines for Chemical Reactivity Evaluation and Application to Process Design; CONTENTS; List of Tables; List of figures; Preface; Acknowledgments; Glossary; List of Symbols; 1. INTRODUCTION; 1.1 GENERAL; 1.2 CHEMICAL REACTIVITY; 1.3 DETONATIONS, DEFLAGRATIONS, AND RUNAWAYS; 1.4 ASSESSMENT AND TESTING STRATEGIES; 2. IDENTIFICATION OF HAZARDOUS CHEMICAL REACTIVITY; 2.1. SUMMARY/STRATEGY; 2.1.1 Introduction; 2.1.2 Hazard Identification Strategy; 2.1.3 Exothermic Reactions; 2.1.4 Experimental Thermal and Reactivity Measurements; 2.1.5 Test Strategies 2.1.6 Overview of Thermal Stability Test Methods2.1.7 Examples of Interpretation and Application of Test Data; 2.2 TECHNICAL SECTION; 2.2.2 Identification of High Energy Substances; 2.2.3. Hazard Prediction by Thermodynamic Calculations; 2.2.3.1 Oxygen Balance; 2.2.3.2 Calculation of the Reaction Enthalpy; 2.2.3.3 Application of Computer

Programs; 2.2.4 Instability/Incompatibility Factors; 2.2.4.1 Factors Influencing Stability; 2.2.4.2 Redox Systems; 2.2.4.3 Reactions with Water; 2.2.4.4 Reactions between Halogenated Hydrocarbons and Metals; 2.3 PRACTICAL TESTING; 2.3.1 Screening Tests
2.3.1.1 Thermal Analysis2.3.1.2 Isoperibolic Calorimetry; 2.3.2 Thermal Stability and Runaway Testing; 2.3.2.1 Isothermal Storage Tests; 2.3.2.2 Dewar Flak Testing and Adiabatic Storage Tests; 2.3.2.3 Accelerating Rate Calorimeter (ARC); 2.3.2.4 Stability Jests for Powders; 2.3.3 Explosibility Testing; 2.3.3.1 Detonation Testing; 2.3.3.2 Deflagration Testing and Autoclave Testing; 2.3.3.3 Mechanical Sensitivity Testing; 2.3.3.4 Sensitivity to Heating under Confinement; 2.3.4 Reactivity Testing; 2.3.4.1 Pyrophoric Properties; 2.3.4.2 Reactivity with Water; 2.3.4.3 Oxidizing Properties
2.3.5 Flammability Testing3. CHEMICAL REACTIVITY CONSIDERATIONS IN PROCESS/REACTOR DESIGN AND OPERATION; 3.1 INTRODUCTION; 3.1.1 Thermal Hazards: Identification and Analysis; 3.1.1.1 Cause, Definition, and Prevention of a Runaway; 3.1.1.2 Some Simple Rules for Inherent Safety; 3.1.1.3 Strategy for Inherent Safety in Design and Operation; 3.1.1.4 Equipment to be Used for the Analysis of Hazards; 3.2 REACTOR, HEAT AND MASS BALANCE CONSIDERATIONS; 3.2.1 Heat and Mass Balances, Kinetics, and Reaction Stability; 3.2.1.1 Adiabatic Temperature Rise; 3.2.1.2 The Reaction; 3.2.1.3 Reaction Rate
3.2.1.4 Reaction Rate Constant3.2.1.5 Concentration of Reactants; 3.2.1.6 Effect of Surrounding Temperature on Stability; 3.2.1.7 Effect of Agitation and Surface Fouling on stability; 3.2.1.8 Mass Balance; 3.2.2 Choice of Reactor; 3.2.3 Heat Transfer; 3.2.3.1 Heat Transfer in Nonagitated Vessels; 3.2.3.2 Heat Transfer in Agitated Vessels; 3.3 ACQUISITION AND USE OF PROCESS DESIGN DATA; 3.3.1 Introduction; 3.3.2 Bench-Scale Equipment for Batch/Tank Reactors; 3.3.2.1 Reaction Calorimeter (RC1); 3.3.2.2 Contalab; 3.3.2.3 CPA ThermoMetric Instruments; 3.3.2.4 Quantitative Reaction Calorimeter
3.3.2.5 Specialized Reactors

Sommario/riassunto

Drawn from international sources, this book provides principles and strategies for the evaluation of chemical reactions, and for using this information in process design and management. A useful resource for engineers who design, start-up, operate, and manage chemical and petrochemical plants, the book places special emphasis on the use of state-of-the-art technology in theory, testing methods, and applications in design and operations.

2. Record Nr. UNINA9910962112903321

Titolo	What happened to the ancient Library of Alexandria? / / edited by Mostafa El-Abbadi and Omnia Mounir Fathallah ; with a preface by Ismail Serageldin
Pubbl/distr/stampa	Leiden ; ; Boston, : Brill, 2008
ISBN	9786613060693 9781283060691 1283060698 9789047433026 9047433025
Edizione	[1st ed.]
Descrizione fisica	1 online resource (281 p.)
Collana	Library of the written word ; ; v. 3. , 1874-4834. The manuscript world ; ; v. 1
Altri autori (Persone)	El-AbbadiMostafa FathallahOmnia Mounir
Disciplina	027.032
Soggetti	Libraries - Egypt - Alexandria - History - To 400
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Nota di bibliografia	Includes bibliographical references (p. [219]-240) and index.
Nota di contenuto	Preliminary Materials / M. El-Abbadi , O. Fathallah and I. Serageldin -- Introduction / Mostafa El-Abbadi -- À La Recherche De La Systématisation Des Connaissances Et Du Passage Du Concret À L' Abstrait Dans L'Egypte Ancienne / Mounir H. Megally -- Private Collections And Temple Libraries In Ancient Egypt / Fayza M. Haikal -- Earth, Wind, And Fire: The Alexandrian Fire-Storm Of 48 B.C. / William J. Cherf -- The Destruction Of The Library Of Alexandria: An Archaeological Viewpoint / Jean-Yves Empereur -- Demise Of The Daughter Library / Mostafa A. El-Abbadi -- Ce Que Construisent Les Ruines / Lucien X. Polastron -- The Nag Hammadi 'Library' Of Coptic Papyrus Codices / Birger A. Pearson -- Learned Women In The Alexandrian Scholarship And Society Of Late Hellenism / Maria Dzielska -- Synesius Of Cyrene And The Christian Neoplatonism: Patterns Of Religious And Cultural Symbiosis / Dimitar Y. Dimitrov -- Damascius And The Collectio Philosophica A Chapter In The History Of Philosophical Schools And Libraries In The Neoplatonic Tradition /

Georges Leroux -- Academic Life Of Late Antique Alexandria: A View From The Field / Grzegorz Majcherek -- The Arab Story Of The Destruction Of The Ancient Library Of Alexandria / Qassem Abdou Qassem -- The Arab Destruction Of The Library Of Alexandria: Anatomy Of A Myth / Bernard Lewis -- Bibliography / M. El-Abbadi , O. Fathallah and I. Serageldin -- General Index / M. El-Abbadi , O. Fathallah and I. Serageldin.

Sommario/riassunto

In adopting the theme of What Happened to the Ancient Library of Alexandria? this book aims at presenting afresh, a highly specialized discussion of primary sources related to the diverse aspects and episodes of that long disputed question. The book covers a wide range of topics, beginning with an initial presentation of different Ancient Egyptian types of library institutions, with a special focus on the later Coptic Nag Hamadi Library. It then deals with the troubled times under later Ptolemies and Romans, when the Royal Library, the Daughter Library and the Mouseion, came under a succession of threats: Caesar's Alexandrian War in 48 B.C., and during the tragic developments in the third and fourth centuries which ultimately culminated in the destruction of the Serapeum that housed the Daughter Library. A discussion of the intellectual milieu during the fourth and fifth centuries, follows, as well as the conflicting attitudes within the Church with regard to classical learning. An analysis of historical and new archaeological evidence confirms the fact that Alexandria continued to be a city of books and scholarship centuries after the destruction of the Library. Finally, the late medieval Arab story of the destruction of the Library by order of Caliph Omar, is fully considered and refuted through textual analysis of the original sources. Contributors include: William J. Cherf, Dimitar Y. Dimitrov, Maria Dzielska, Mostafa A. El-Abbadi, Jean-Yves Empereur, Fayza M. Haikal, Georges Leroux, Bernard Lewis, Grzegorz Majcherek, Mounir H. Megally, Birger A. Pearson, Lucien X. Polastron, Qassem Abdou Qassem, and Ismail Serageldin.