1. Record Nr. UNINA9910144002703321 Autore Steinbach Jorg Titolo Safety assessment for chemical processes [[electronic resource] /] / Jorg Steinbach Weinheim;; New York,: Wiley-VCH, c1999 Pubbl/distr/stampa **ISBN** 1-281-76381-0 9786611763817 3-527-61176-2 3-527-61175-4 Edizione [1st ed.] Descrizione fisica 1 online resource (321 p.) Disciplina 660.0684 660.2804 Soggetti Chemical plants - Safety measures Chemical engineering - Safety measures Hazardous substances - Safety measures Electronic books. 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. [295]-299) and index. Nota di contenuto Safety Assessment for Chemical Processes; Contents; 1 Basic Terminology in Loss Prevention; 1.1 General Safety Terms; 1.1.1 Hazard Potential and Expectable Damage; 1.1.2 Risk; 1.2 Basic Terminology for Plant/Process Operation; 2 Procedure for Process Safety Investigations; 2.1 Scope of Investigation in its Dependence on the Process Development Stage; 2.2 Definition of Significant Plant or Process Modifications; 2.3 Types of investigations Corresponding to the Life Cycle Progress; 3 Test Methods For The Thermal Stability Assessment Of Substances And Mixtures 3.1 Theoretical Considerations For Laboratory Processes 3.2 Screening -Methods For kg-Scale Processes; 3.2.1 Difference Thermal Analysis (DTA) and Differential Scanning Calorimetry (DSC): 3.2.2 The Carius Tube Test; 3.2.3 The Miniautoclave Test; 3.2.4 Open Cup Measuring Techniques; 3.3 Further Basic Assessment Test Methods For kg-Scale

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Sommario/riassunto

In spite of the good safety records of chemical plants many people regard chemical production as dangerous because of a few major accidents that have occurred. A knowledge of at least the fundamentals of chemical safety technology is indispensable for chemists and engineers working in chemical industry. The increasingly stringent legal and administrative requirements can only be answered by more highly qualified employees. This book combines the author's experience of 15 years of research in the field of chemical safety and 10 years in the chemical industry. It provides newcomers