1. Record Nr. UNINA9910784462703321 Autore Barker Mike Titolo Practical batch process management [[electronic resource] /] / Mike Barker, Jawahar Rawtani Amsterdam;; Boston,: Elsevier/Newnes, 2005 Pubbl/distr/stampa **ISBN** 1-280-62917-7 9786610629176 0-08-045543-3 Descrizione fisica 1 online resource (189 p.) Collana Practical professional books from Elsevier Altri autori (Persone) RawtaniJawahar Disciplina 670.4/27 Soggetti Process control Electronic data processing - Batch processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto Front cover; Contents; 1. Introduction; 1.1 Introduction; 1.2 Identification of batch processes; 1.3 Background of the need for integrated batch systems; 1.4 Overview of batch systems engineering; 1.5 Introduction to standards; 2. Identify and define physical models; 2.1 Introduction; 2.2 Define the physical model; 2.3 Define tags; 3. Identify and define process models, actions, operations and stages; 3.1 Introduction; 3.2 Process model; 3.3 Relationship between process model and physical model; 4. Identify and define procedural models; 4.1 Introduction; 4.2 Procedural model 4.3 Concept of equipment entities5. Introduction to recipes; 5.1 Introduction; 5.2 S88 recipe model; 5.3 Types of recipes; 5.4 Building recipe procedures; 6. Batch manufacturing basics; 6.1 Introduction; 6.2 Batch numbering, tracking and reporting; 6.3 Batch planning and scheduling; 7. Batch and sequence programming fundamentals; 7.1 Introduction: 7.2 Techniques for batch control elements: 7.3 Implementation; 7.4 Interaction with continuous process sections; 8. Practical techniques in sequence control design; 8.1 Introduction; 8.2 Programming PLCs/DCS 8.3 Practical methods of functional specification 8.4 Defining equipment procedures; 8.5 Phase logic programming; 8.6 Phase logic interface; 9.

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Historically batch control systems were designed individually to match a specific arrangement of plant equipment. They lacked the ability to convert to new products without having to modify the control systems, and did not lend themselves to integration with manufacturing management systems. Practical Batch Management Systems explains how to utilize the building blocks and arrange the structures of modern batch management systems to produce flexible schemes suitable for automated batch management, with the capability to be reconfigured to use the same plant equipment in different combinati

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