1.	Record Nr.	UNINA9910877272703321
	Titolo	Guidelines for improving plant reliability through data collection and analysis
	Pubbl/distr/stampa	New York, : American Institute of Chemical Engineers, c1998
	ISBN	9786612783265
		9781282783263
		1282783262
		9780470935248
		0470935243
		9780470935262
		047093526X
		9781591246251
		1591246253
	Descrizione fisica	1 online resource (210 p.)
	Collana	CCPS guidelines series
	Disciplina	660/.2815
	Soggetti	Chemical process control - Statistical methods
		Reliability (Engineering) - Statistical methods
	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 and index.
	Nota di contenuto	Guideline for Improving Plant Reliability through Data Collection and Analysis; Contents; Preface; Acknowledgments; 1 Introduction; 1.1. Background; 1.2. Taxonomy; 1.3. Data Aggregation/Sharing; 2 Definitions; 2.1. Introduction; 2.2. Discussion of Key Reliability Terms; 2.3. Glossary of Terms; 3 Methods of Analysis; 3.1. Introduction; 3.2. Basic Concepts of Data Analysis; 3.2.1. Failure Data; 3.2.2. Need for Correct Failure Modes; 3.2.3. Types of Systems-Repairable or Nonrepairable; 3.2.4. Reliability versus Availability; 3.2.5. Types of Data-Censoring; 3.2.6. Definitions
		3.2.7. Dealing with Censored Data3.2.8. Common Cause Failures; 3.2.9. Predictive versus Descriptive Methods; 3.3. Data Manipulation Examples; 3.3.1. Methods of Analysis; 3.4. Cyclical Service; 3.5. Batch Service; 3.6. Standby Service; 3.7. Failures Following a Repair; 3.8. Selecting an Operating Mode; 3.9. Analysis Based on Statistical

Sommario/riassunto	Written by reliability data experts, the book gives plant managers and supervisors the guidance they need to collect, and use with confidence, process equipment reliability data for risk-based decisions. Focusing on the process industries, it provides the protocol and techniques to collect and organize high quality plant performance, maintenance, and repair data from your own operations, and includes methods and examples on how the data can be converted into useful information for engineering, maintenance, safety, and loss prevention. This data can be used for: facility reliability/availabilit