Record Nr. UNINA9910811279603321 Autore Macdonald Dave <1942-> Titolo Practical industrial safety, risk assessment and shutdown systems for industry / / Dave Macdonald Amsterdam ; ; Oxford, ; Newnes, 2004 Pubbl/distr/stampa **ISBN** 1-281-00297-6 9786611002978 0-08-047388-1 Edizione [1st ed.] Descrizione fisica 1 online resource (375 p.) Practical professional books from Elsevier Practical industrial safety, Collana risk assessment and shutdown systems for industry 629.895 Disciplina Soggetti Automatic control Industrial safety Risk assessment Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto Front Cover; Practical Industrial Safety, Risk Assessment and Shutdown Systems for Industry; Copyright Page; Contents; Preface; Chapter 1. Introduction; 1.1 Definition of safety instrumentation; 1.2 What is this book about?: 1.3 Why is this book necessary?: 1.4 Contents of the book; 1.5 Introduction to hazards and risks; 1.6 Fatal accident rate (FAR); 1.7 Overview of safety systems engineering (SSE); 1.8 Why be systematic?: 1.9 Introduction to standards: IEC 61508 and ISA S84: 1.10 Equipment under control; 1.11 The safety life cycle model and its phases (SLC phases) 1.12 Implications of IEC 61508 for control systems1.13 Summary; 1.14 Safety life cycle descriptions: 1.15 Some websites for safety systems information; 1.16 Bibliography and sources of information; 1.17 Guidelines on sector standards; Chapter 2. Hazards and risk reduction; 2.1 Introduction; 2.2 Consider hazards under some main subjects:; 2.3

Risk reduction and classification

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Sommario/riassunto

This is a book for engineers that covers the hardware and software aspects of high-reliability safety systems, safety instrumentation and shutdown systems as well as risk assessment techniques and the wider spectrum of industrial safety. Rather than another book on the discipline of safety engineering, this is a thoroughly practical guide to the procedures and technology of safety in control and plant engineering. This highly practical book focuses on efficiently implementing and assessing hazard studies, designing and applying international safety practices and techniques, and ensuring high r