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Titolo	Practical industrial safety, risk assessment and shutdown systems for industry [e-book] / Dave Macdonald
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Collana	Practical professional books from Elsevier
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Nota di contenuto	Introduction to Safety Instrumentation; Hazards and Risk Reduction; Hazard Studies; Safety Requirements Specifications; Technology Choices and the Conceptual Design Stage; Basic Reliability Analysis Applied to Safety Systems; Safety in Field Instruments and Devices; Engineering the Safety System : Hardware; Engineering: the Application Software; Overall Planning: IEC Phases 6,7 and 8; Installation and Commissioning (IEC Phase 12); Validation, Operations and Management of Change; Justification for a Safety Instrumented System; Practicals 1-8; Practical Answers; Glossary
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 reliability in the safety and emergency shutdown of systems in your

plant. This book will provide the reader with the most up-to-date standards for and information on each stage of the safety life cycle from the initial evaluation of hazards through to the detailed engineering and maintenance of safety instrumented systems. It will help them develop the ability to plan hazard and risk assessment studies, then design and implement and operate the safety systems and maintain and evaluate them to ensure high reliability. Finally it will give the reader the knowledge to help prevent the massive devastation and destruction that can be caused by today's highly technical computer controlled industrial environments. * Helps readers develop the ability to plan hazard and risk assessment studies, then design, implement and operate the safety systems and maintain and evaluate them to ensure high reliability * Gives the reader the knowledge to help prevent the massive devastation that can be caused by today's highly technical computer controlled industrial environments * 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