Practical Industrial Safety, Risk Assessment and Shutdown Systems

Description:
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

Contents:
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.

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