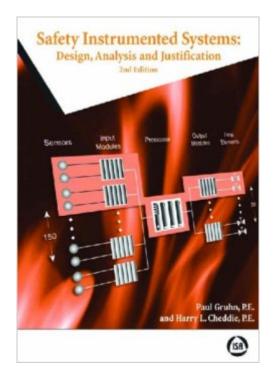
The book was found

# Safety Instrumented Systems: Design, Analysis, And Justification, 2nd Edition





## Synopsis

This newly revised best-seller is ideal for instrumentation and control system engineers in the process industries who are responsible for designing, installing, and maintaining safety instrumented systems. Engineers, managers, technicians, and sales professionals employed by end users, engineering firms, systems integrators, and consultants can all benefit from the material presented here. This book addresses the increased realization that today's engineering systems—and the computers used to control them—are capable of large-scale destruction. When even a single accident could be disastrous, the luxury of learning from experience no longer exists. This book is a practical how-to text on the analysis, design, application and installation of safety instrumented systems.

## **Book Information**

Paperback: 306 pages Publisher: ISA: The Instrumentation, Systems, and Automation Society; 2 edition (August 22, 2005) Language: English ISBN-10: 1556179561 ISBN-13: 978-1556179563 Product Dimensions: 0.8 x 7 x 9.8 inches Shipping Weight: 1.4 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars Â See all reviews (4 customer reviews) Best Sellers Rank: #846,363 in Books (See Top 100 in Books) #206 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Technology #325 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Health & Safety #492 in Books > Textbooks > Engineering > Industrial Engineering

## **Customer Reviews**

This is truly an excellent introductory book on Safety Shutdown Systems, that will give you an overview on all the fundamentals, concepts, and specific aspects that need to be considered when designing an emergency shutdown system for a new facility or when evaluating an existing one. The text is written in aclear an readable way that make even easier to understand topics that often can be confusing. The style of the book reminds of the self-study guides published by ISA as the Independent Learning Modules (but this is not part of the ILM series). This book is primarily intended for the thousands of instrumentation and control systems engineers in the process industries (e.g.,

refining, chemical, petrochemical, offshore, etc.) who are responsible for designing, installing, and maintaining safety instrumented systems (SIS). The kind of people usually employed by end-users, engineering firms, systems integrators, and consultants. Additionally managers and sales individuals will also benefit from a basic understanding of this subject. The book is organized as follows:- Design life cycle.- Risk.- Process control versus safety control.- Protection layers.- Developing the safety requirement speficifications.- Determining the safety integrity level.- Choosing a technology.- Initial system evaluation.- Issues relating to field devices.- Engineering a system.- Installing a system.- Functional testing.- Managing changes to a system.- Justufucation for a sefety system.- Safety Instrumented System (SIS) design checklist.- Case study.I am an Industrial Practitioner of Process Control. I have been working for more than 16 years as an Instrumentation, Automation, and Process Safety and Control Engineer for the Oil & Gas Industry. I have found this book to be an useful refresher in my day to day activities.

Book closely parallels Paul Gruhn's ISA course. I finished the book over a long weekend. Written in conversational, easy-to-digest style. The book minimizes jargon, uses real-world examples and humor (and cartoons drawn by Gruhn) to improve comprehension. An excellent overall reference for management or the non-safety engineer who needs to understand SIS, the life cycle concept, SILs, etc.

well worth every penny even for beginners. Easy explanations of complex issues. Good worked out examples. Used it to learn the subject. Only missing is a pro former for SRS

#### Great book - Extremely helpful and detailed

#### Download to continue reading...

Safety Instrumented Systems: Design, Analysis, and Justification, 2nd Edition IEC 61511-3 Ed. 1.0 b:2004, Functional safety - Safety instrumented systems for the process industry sector - Part 3: Guidance for the determination of the required safety integrity levels Safety Shutdown Systems: Design, Analysis, and Justification IEC 61511-1 Ed. 1.0 b:2003, Functional safety - Safety instrumented systems for the process industry sector - Part 1: Framework, definitions, system, hardware and software requirements IEC 61511-2 Ed. 1.0 b:2004, Functional safety - Safety instrumented systems for the process industry sector - Part 2: Guidelines for the application of IEC 61511-1 ISO 13849-1:2006, Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design Engineering a Safer World: Systems Thinking Applied to Safety (Engineering Systems) Signs of Safety: A Solution and Safety Oriented Approach to Child Protection Casework Back-To-School Safety (Rookie Read-About Safety) McGraw-Hill's National Electrical Safety Code 2017 Handbook (Mcgraw Hill's National Electrical Safety Code Handbook) Patterns In Safety Thinking: A Literature Guide to Air Transportation Safety Feng Shui: Wellness and Peace- Interior Design, Home Decorating and Home Design (peace, home design, feng shui, home, design, home decor, prosperity) Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) Systems Analysis and Design: An Object-Oriented Approach with UML, 5th Edition Modern Control Systems Analysis and Design Using MATLAB and Simulink Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) Vaccine Safety Manual for Concerned Families and Health Practitioners, 2nd Edition: Guide to Immunization Risks and Protection Design of 3D Integrated Circuits and Systems (Devices, Circuits, and Systems) Pavement Analysis and Design (2nd Edition) Microwave Transistor Amplifiers: Analysis and Design (2nd Edition)

<u>Dmca</u>