We are building systems today--and using computers to control them--that have the potential for large-scale destruction of life and environment. More than ever, software engineers and system developers, as well as their managers, must understand the issues and develop the skills needed to anticipate and prevent accidents before they occur. Professionals should not require a catastrophe to happen before taking action. Addressing this need in her long-awaited book, Nancy Leveson examines what is currently known about building safe electromagnetic systems and looks at past accidents to see what practical lessons can be applied to new computer-controlled systems.

Software
Demonstrates the importance of integrating software safety efforts with system safety engineering
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Engineering a Safer World Systems Thinking Applied to Safety, Nancy Leveson, 2011, Science, 534 pages. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety and reliability engineering, created in a simpler, analog world.

Guidelines for safe process operations and maintenance, American Institute of Chemical Engineers. Center for Chemical Process Safety, Mar 15, 1995, Technology & Engineering, 352 pages. First-line managers have to maintain the integrity of facilities, control manufacturing processes, and handle unusual or emergency situations, as well as respond to the.

Safety Analysis Principles and Practice in Occupational Safety, Lars Harms-Ringdahl, Sep 2, 2003, Technology & Engineering, 302 pages. Safety analysis can be applied as a practical tool in occupational safety. It has three main elements: the identification of hazards, the assessment of risks that arise, and.


Developing Effective Safety Systems, Ian G. Wallace, 1995, Technology & Engineering, 165 pages. This book is based on the author's 30 years of experience in industry, providing guidance on developing safety systems and policies and procedures..


Guidelines for Process Safety Documentation, Center for Chemical Process Safety (CCPS), Sep 9,
2010, Technology & Engineering, 386 pages. The process industry has developed integrated process safety management programs to reduce or eliminate incidents and major consequences, such as injury, loss of life, property.

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