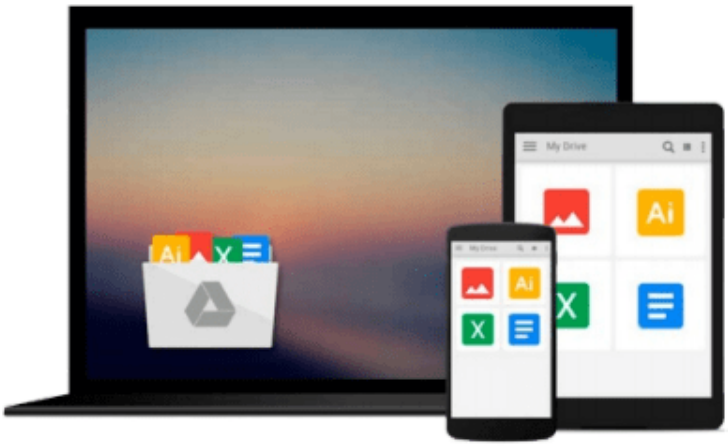

The Safety Relief Valve Handbook: Design and Use of Process Safety Valves to ASME and International Codes and Standards (Butterworth-Heinemann/IChemE)

Marc Hellemans

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The Safety Valve Handbook is a professional reference for design, process, instrumentation, plant and maintenance engineers who work with fluid flow and transportation systems in the process industries, which covers the chemical, oil and gas, water, paper and pulp, food and bio products and energy sectors.

It meets the need of engineers who have responsibilities for specifying, installing, inspecting or maintaining safety valves and flow control systems.

It will also be an important reference for process safety and loss prevention engineers, environmental engineers, and plant and process designers who need to understand the operation of safety valves in a wider equipment or plant design context.

• No other publication is dedicated to safety valves or to the extensive codes and standards that govern their installation and use. A single source means users save time in searching for specific information about safety valves.
• The Safety Valve Handbook contains all of the vital technical and standards information relating to safety valves used in the process industry for positive pressure applications.
• Explains technical issues of safety valve operation in detail, including identification of benefits and pitfalls of current valve technologies.
• Enables informed and creative decision making in the selection and use of safety valves.
• The Handbook is unique in addressing both US and European codes:
- covers all devices subject to the ASME VIII and European PED (pressure equipment directive) codes;
- covers the safety valve recommendations of the API (American Petroleum Institute);
- covers the safety valve recommendations of the European Normalisation Committees;
- covers the latest NACE and ATEX codes;
- enables readers to interpret and understand codes in practice.
• Extensive and detailed illustrations and graphics provide clear guidance and explanation of technical material, in order to help users of a wide range of experience and background (as those in this field tend to have) to understand these devices and their applications.
• Covers calculating valves for two-phase flow according to the new Omega 9 method and highlights the safety difference between this and the traditional method.
• Covers selection and new testing method for cryogenic applications (LNG) for which there are currently no codes available and which is a booming industry worldwide.
• Provides full explanation of the principles of different valve types available on the market, providing a selection guide for safety of the process and economic cost.
• Extensive glossary and terminology to aid readers' ability to understand documentation, literature, maintenance and operating manuals.
• Accompanying website provides an online valve selection and codes guide.

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