DESCRIPTION

An essential guide for developing and interpreting piping and instrumentation drawings

*Piping and Instrumentation Diagram Development* is an important resource that offers the fundamental information needed for designers of process plants as well as a guide for other interested professionals. The author offers a proven, systemic approach to present the concepts of P&ID development which previously were deemed to be graspable only during practicing and not through training.

This comprehensive text offers the information needed in order to create P&ID for a variety of chemical industries such as: oil and gas industries; water and wastewater treatment industries; and food industries. The author outlines the basic development rules of piping and instrumentation diagram (P&ID) and describes in detail the three main components of a process plant: equipment and other process items, control system, and utility system. Each step of the way, the text explores the skills needed to excel at P&ID, includes a wealth of illustrative examples, and describes the most effective practices.

This vital resource:

- Offers a comprehensive resource that outlines a step-by-step guide for developing piping and instrumentation diagrams
- Includes helpful learning objectives and problem sets that are based on real-life examples
- Provides a wide range of original engineering flow drawing (P&ID) samples
• Includes PDF’s that contain notes explaining the reason for each piece on a P&ID and additional samples to help the reader create their own P&IDs

Written for chemical engineers, mechanical engineers and other technical practitioners, *Piping and Instrumentation Diagram Development* reveals the fundamental steps needed for creating accurate blueprints that are the key elements for the design, operation, and maintenance of process industries.

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**ABOUT THE AUTHOR**

**MOE TOGHRAEI** is an independent consultant and instructor. He has more than 20 years of experience in the chemical process industries. He provides consultancy in process and project engineering areas. He also has developed and instructed dozens of technical courses, including tailor-made courses for companies, public courses and online courses. His online courses are available through the University of Kansas and University of Dalhousie.

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