



Pipeline Integrity Handbook: Risk Management and Evaluation

By Ramesh Singh

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Based on over 40 years of experience in the field, Ramesh Singh goes beyond corrosion control, providing techniques for addressing present and future integrity issues. *Pipeline Integrity Handbook* provides pipeline engineers with the tools to evaluate and inspect pipelines, safeguard the life cycle of their pipeline asset and ensure that they are optimizing delivery and capability. Presented in easy-to-use, step-by-step order, *Pipeline Integrity Handbook* is a quick reference for day-to-day use in identifying key pipeline degradation mechanisms and threats to pipeline integrity. The book begins with an overview of pipeline risk management and engineering assessment, including data collection and regulatory approaches to liquid pipeline risk management. Other critical integrity issues include:

- Pipeline defects and corrective actions
- Introduction to various essential pipeline material such as line pipes and valves
- Coverage on corrosion and corrosion protection
- Identifies the key pipeline degradation mechanisms and threats to pipeline integrity
- Appreciates various corrosion monitoring and control tools and techniques
- Understands the principles of risk assessment and be able to conduct a simple risk assessment
- Develops simple Pipeline Integrity Management plans
- Selects and apply appropriate inspection and assessment criteria for pipeline defects
- Recommends appropriate repair methods for pipeline defects

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