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# Oil and Gas Pipelines: Integrity and Safety Handbook

*By R. Winston Revie*



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**Oil and Gas Pipelines: Integrity and Safety Handbook** By R. Winston Revie

A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore

- Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment
- Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure
- Includes case histories with examples of solutions to complex problems related to pipeline integrity
- Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators
- Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety



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## **Editorial Review**

From the Back Cover

### **A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines**

Oil and gas pipeline transport is used to supply energy to power our industries, fuel our cars, and heat and cool our homes. While an extensive pipeline network is an efficient and safe method of transporting petroleum and other products, several hazards and incidents, such as gas leaks and oil spills, have raised environmental and social concerns.

*Oil and Gas Pipelines: Integrity and Safety Handbook* discusses the factors that affect the integrity of new and aging pipelines, public safety, and environmental protection. It covers the reliability of pipelines as affected by factors throughout the pipeline lifetime, ranging from design, manufacture, and welding to operation, inspection, monitoring, maintenance, and repair.

Through contributions from leading experts in diverse fields, *Oil and Gas Pipelines: Integrity and Safety Handbook* features:

- 52 peer-reviewed chapters on the integrity and safety of production and transmission pipelines, onshore and offshore
- Chapters on both stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators
- Detailed discussion of many critical issues, including mechanical damage, residual stresses, erosion-corrosion, pitting corrosion, microbiologically influenced corrosion, telluric effects, direct assessment, human factors, flaw assessment, integrity management of pipeline facilities, pipeline cleaning, black powder, oil spill cleanup, repair, abandonment, and risk management
- Links between modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure

Additional chapters examine in-line inspection, in-the-ditch inspection, and internal corrosion monitoring. The book closes with several case histories with practical examples of solutions to complex problems related to pipeline integrity.

The evolution of the pipeline industry has experienced many recent developments as a result of engineering advances, new standards and regulations, and environmental requirements. The breadth and depth of coverage of this Handbook make this new book a valuable source of information for all those concerned with pipeline technology.

### **About the Author**

**R. Winston Revie** retired from the CANMET Materials Technology Laboratory, Ottawa, Canada, in 2011, after 33 years as a scientist, project leader, and program manager for pipeline technology. He is a Past President of the Metallurgical Society of the Canadian Institute of Mining, Metallurgy and Petroleum, a Past President of the NACE Foundation of Canada, and a Past Director of NACE International. He received the Distinguished Technical Achievement Award of NACE International in 2004 and has received Fellow

honors from CIM (1999), NACE International (1999), ASM International (2003), and The Electrochemical Society (2012) among other awards for his work. He has authored or co-authored more than 100 reference papers and technical reports and was the editor of *Uhlig's Corrosion Handbook*, 2<sup>nd</sup> and 3<sup>rd</sup> editions (Wiley, 2000 and 2011), and he co-authored the 3<sup>rd</sup> and 4th editions of *Corrosion and Corrosion Control* (Wiley, 1985 and 2008).

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