Oil and Gas Pipelines: Integrity and Safety Handbook

R. Winston Revie, Editor

CHEMICAL ENGINEERING & INDUSTRIAL CHEMISTRY

Oil and Gas Pipelines: Integrity and Safety Handbook presents a comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore.

The text includes:

- 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
- Case histories with examples of solutions to complex problems related to pipeline integrity
- 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
- Information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety
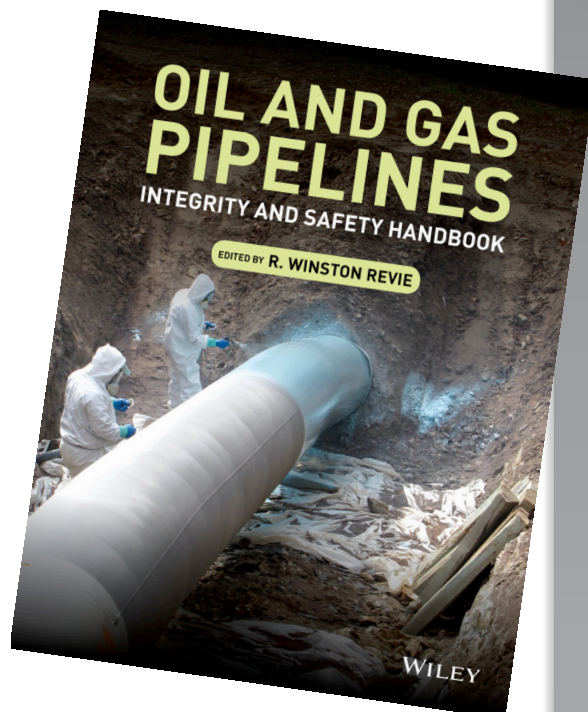
R. WINSTON REVIE retired from the CANMET Materials Technology Laboratory, Ottawa, Canada, in 2011, after 33 years as a scientist, project leader, and program manager for pipeline technology. He is a Past President of the Metallurgical Society of the Canadian Institute of Mining, Metallurgy and Petroleum, a Past President of the NACE Foundation of Canada, and a Past Director of NACE International.

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