## DESCRIPTION

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

## 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*, 2nd and 3rd editions (Wiley, 2000 and 2011), and he co-authored the 3rd and 4th editions of *Corrosion and Corrosion Control* (Wiley, 1985 and 2008).

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