

Underground Pipeline Corrosion (Hardback)

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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book. (Ms. Ora Buckridge)

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UNDERGROUND PIPELINE CORROSION (HARDBACK)



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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2014. Hardback. Book Condition: New. 236 x 164 mm. Language: English . Brand New Book. Underground pipelines transporting liquid petroleum products and natural gas are critical components of civil infrastructure, making corrosion prevention an essential part of asset-protection strategy. Underground Pipeline Corrosion provides a basic understanding of the problems associated with corrosion detection and mitigation, and of the state of the art in corrosion prevention. The topics covered in part one include: basic principles for corrosion in underground pipelines, AC-induced corrosion of underground pipelines, significance of corrosion in onshore oil and gas pipelines, numerical simulations for cathodic protection of pipelines, and use of corrosion inhibitors in managing corrosion in underground pipelines. The methods described in part two for detecting corrosion in underground pipelines include: magnetic flux leakage, close interval potential surveys (CIS/CIPS), Pearson surveys, in-line inspection, and use of both electrochemical and optical probes. While the emphasis is on pipelines transporting fossil fuels, the concepts apply as well to metallic pipes for delivery of water and other liquids. Underground Pipeline Corrosion is a comprehensive resource for corrosion, materials, chemical, petroleum, and civil engineers constructing or managing both onshore and offshore pipeline eassets; professionals in steel and coating companies; and academic researchers and professors with an interest in corrosion and pipeline engineering. * Reviews the causes and considers the detection and prevention of corrosion to underground pipeline industry.

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