



Cathodic Corrosion Protection Systems: A Guide for Oil and Gas Industries

By Alireza Bahadori

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Cathodic Corrosion Protection Systems: A Guide for Oil and Gas Industries

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Corrosion is a naturally occurring cost, worth billions in the oil and gas sector. New regulations, stiffer penalties for non-compliance and aging assets are all leading companies to develop new technology, procedures and bigger budgets catering to one prevailing method of prevention, cathodic protection.

Cathodic Corrosion Protection Systems: A Guide for Oil and Gas Industries trains on all the necessary reports, inspection criteria, corrective measures and critical standards needed on various oil and gas equipment, structures, tanks, and pipelines. Demands in the cathodic protection market have driven development for better devices and methods, helping to prolong the equipment and pipeline's life and integrity. Going beyond just looking for leaks, this handbook gives the engineer and manager all the necessary tools needed to put together a safe cathodic protection system, whether it is for buried casing while drilling, offshore structures or submarine pipelines.

- Understand how to install, inspect and engage the right cathodic protection systems for various oil and gas equipment, tanks, and pipelines
- Properly construct the right procedure and anodes with all relevant US and International standards that apply
- Gain knowledge concerning techniques, equipment, measurements and test methods used in real-world field scenarios

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Review

"Minimize corrosion on your oil and gas industries and pipelines with this must-have cathodic protection handbook" H. B. Singh, India

"This well written and well organized cathodic corrosion protection book would be a fantastic contribution to the reference collection in the oil and gas area. The contents of the book are extremely useful for newcomers to the field as well as experienced professional engineers. It is well organized and indexed, so the information is readily accessible to students as well as practicing engineers and managers" -- **Dr. K. Zeidani, Cenovus Energy Inc., Canada**

"It is a very thorough reference book for engineers, students, managers and technicians who are already involved in research and training of cathodic corrosion protection systems in the oil and gas area. The book is nicely divided into 8 chapters and has a comprehensive glossary of terms, references, valuable technical information, equations and formulas related to cathodic corrosion protection. Engineers of many disciplines of oil and gas industries, project managers and students of corrosion engineering would find this book quite helpful for their works, researches and studies." -- **Dr. S. R. Gomari, Teesside University, United Kingdom**

About the Author

Alireza Bahadori, PhD, CEng, MChemE, CPEng, MIEAust, RPEQ, NER is a research staff member in the School of Environment, Science and Engineering at Southern Cross University, Lismore, NSW, Australia, and managing director and CEO of Australian Oil and Gas Services, Pty. Ltd. He received his PhD from Curtin University, Perth, Western Australia. During the past twenty years, Dr. Bahadori has held various process and petroleum engineering positions and was involved in many large-scale oil and gas projects. His multiple books have been published by multiple major publishers, including Elsevier. He is Chartered Engineer (CEng) and Chartered Member of Institution of Chemical Engineers, London, UK (MChemE). Chartered Professional Engineer (CPEng) and Chartered Member of Institution of Engineers Australia, Registered Professional Engineer of Queensland (RPEQ), Registered Chartered Engineer of Engineering Council of United Kingdom and Engineers Australia's National Engineering Register (NER).

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