



Pipeline Corrosion and Cathodic Protection, Third Edition: A Practical Manual for Corrosion Engineers, technicians, and field personnel

By Marshall Parker, Edward G. Peattie

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This update of Marshall Parker's classic text contains the latest "hands-on" information for taking measurements and making the calculations necessary for cathodic protection of buried pipe lines. Essentially a practical field manual for corrosion technicians and engineers, it is a simple and direct introduction to the fundamentals of a complex subject.

The contents cover soil resistivity surveys, potential surveys, line currents, current requirement surveys, rectifier systems for coated lines, ground bed design and installation, galvanic anodes on coated lines, hot spot protection, bond protection, stray current electrolysis, interference, operation and maintenance, and coating inspection and testing. There are also helpful appendixes that explain the fundamentals of underground corrosion, basic principles of cathodic protection, tables of properties of metals, and attenuation equations.

While other books on corrosion are sometimes too theoretical for practical work, Pipe Line Corrosion and Cathodic Protection, Third Edition, shows you how to take actual field measurements and apply them to design a well-protected system.

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Editorial Review

About the Author

The late Marshall Parker was one of the world's foremost experts when it came to solutions to problems of pipe line corrosion and cathodic protection. Mr. Parker studied mathematics and physics and held degrees from Sam Houston State Teachers College and Rice University. He began his engineering studies with Houston Light and Power Co. He was a registered professional engineer in Texas and a consultant on pipe line corrosion for many years. He was also active in the National Association of Corrosion Engineers, where he served on several technical committees and taught short courses.

Edward G. Peattie has held positions in the energy industries, both in the U.S. and overseas, at the University of Petroleum and Minerals, Dhahran, Saudi Arabia, with Ebasco Services, Inc., Commonwealth Oil Refining Co., Bechtel Corp., Standard Oil of Ohio, Arabian American Oil, Rohm & Haas, and as professor of petroleum engineering at Mississippi State University. His degrees are in chemistry and chemical engineering from Ohio University, the University of Michigan, and Temple University, and he is a member of the SPE of AIME, NACE, NSPE, ACS, AIChE, ASM, and AAAS. Mr. Peattie is also a registered professional engineer in the state of Ohio, and is now a consulting engineer in Florida.

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