



# Corrosion in Systems for Storage and Transportation of Petroleum Products and Biofuels: Identification, Monitoring and Solutions

By Alec Groysman

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## Corrosion in Systems for Storage and Transportation of Petroleum Products and Biofuels: Identification, Monitoring and Solutions By Alec Groysman

This book treats corrosion as it occurs and affects processes in real-world situations, and thus points the way to practical solutions. Topics described include the conditions in which petroleum products are corrosive to metals; corrosion mechanisms of petroleum products; which parts of storage tanks containing crude oils and petroleum products undergo corrosion; dependence of corrosion in tanks on type of petroleum products; aggressiveness of petroleum products to polymeric material; how microorganisms take part in corrosion of tanks and pipes containing petroleum products; which corrosion monitoring methods are used in systems for storage and transportation of petroleum products; what corrosion control measures should be chosen; how to choose coatings for inner and outer surfaces of tanks containing petroleum products; and how different additives (oxygenates, aromatic solvents) to petroleum products and biofuels influence metallic and polymeric materials.

The book is of interest to corrosion engineers, materials engineers, oil and gas engineers, petroleum engineers, chemists, chemical engineers, mechanical engineers, failure analysts, scientists, and students, designers of tanks, pipelines and other systems for storage and transportation fuels, technicians.

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#### About the Author

**Dr. Alec Groysman** graduated in 1973 from the Chemico-Technological University named after Mendeleev in Moscow. He received his Ph.D. in physical chemistry and corrosion in 1983 in Moscow. Dr. Groysman has experience in corrosion and protection from corrosion from 1976 in the oil refining industry.

Dr. Groysman deals with kinetics and thermodynamics of corrosion processes, on-line corrosion monitoring, choice and use of corrosion inhibitors, coating systems, selection of appropriate alloys for corrosive conditions, and failure analysis. He has special interests in corrosion education and in the searching of relationships between corrosion, art, history and philosophy.

His first book "Corrosion for Everybody" published by Springer in 2010 received the innovation award winner of Materials Performance Readers` choice in 2012 year in the USA.

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