

Keynote Forum



International Conference on OIL AND GAS

August 05-06, 2019 | Singapore



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ACME, USA

Factors affecting the crack-initiation of pipeline infrastructure in the oil and gas

An essential step in materials degradation is the determination of the failure mechanism. To understand better the mechanism of the crack initiation process, key metallurgical and environmental elements that can affect the cracking phenomena were investigated and are reviewed. The complexity of both cracking phenomena results from the dependence of SCC and HIC on multiple metallurgical, mechanical, and environmental parameters that may all influence both crack initiation and propagation; e.g., composition, microstructure and non-metallic inclusions in the steel, applied stress, water chemistry in the field, and ionic concentrations in the groundwater near the pipe surface to name a few for SCC. In addition, for HIC phenomena, one can add the concentration of H_2S in the fluids transported in the pipe as well as concentration of CO_2 , pH, etc.

Cracking of line pipe steels is analyzed critically, with attention to the crack initiation process.

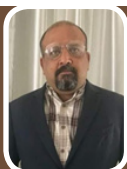
Biography

Mimoun Elboujdaini is a Research Scientist with over 30 years in material R&D and management and coordinator of projects on engineering materials, their properties and performance in various service environments. The projects covered oil & gas, pipeline, aluminum base alloys, stainless steels, mining industry, and aerospace materials, etc. He is an Active member of several international professional societies as chairman and/or as member of Board of Directors. He is also Chaired several national and international conferences. He reviewed numerous papers for scientific journals, and acted as editor books, PhD thesis examiner and reviewer of graduate programs at the universities and Adjunct professorship at the University of Alberta. He has won several National & International awards and recognitions.

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Kishore Damodaran

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Petrochemicals

Petrochemicals are chemicals or synthetic of a produced from:

- Natural gas,
- Natural-Gas Liquids, or
- Refinery Products Derived from Crude Oil Distillation, or Cracking.

(These Compounds are basic product of Hydrocarbon)

The domination of Engineering and Science of Petrochemical was dominated by German, British, Other European Companies however the technology has been also established in Japan, China, Korea and Taiwan.

The petrochemical industry is now an important growth for the developing and developed country mainly on increase the growth of the entire economy through various support sectors

Integration of Petrochemical in Modern Societies:

- plastics, fertilisers, packaging, clothing, digital devices, medical equipment, detergents, tires and many others
- Petrochemical products are everywhere and are integral to modern societies
- They are also found in many parts of the modern energy system, including solar panels, wind turbine blades, batteries, thermal insulation for buildings, and electric vehicle parts.

The Future of Petrochemicals

Currently there are incredibly high growing demand for these products, And the future of the Petrochemicals will be replaced with clean energy such as biomass etc.

Biography

Kishore Damodaran, currently the Group Managing Director of DTEC Petroleum Group , and has 25 years' experience in Engineering, Construction, Fabrication, Offshore Installation and Hook Up And Commissioning and International Logistics and also completed in past numerous, reputable EPCC projects (Oil and Gas / Petrochemical) in Malaysia and Overseas as Project Manager / Director with major companies.

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