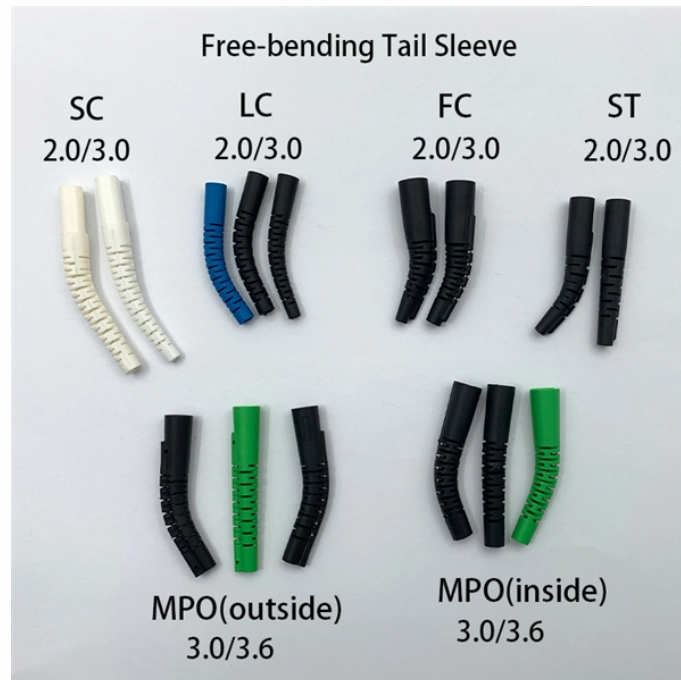


High-precision EMS for oil pipeline monitoring and communication stations

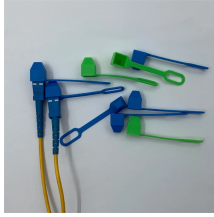


Overview

In this research, using a system based on the gamma-ray attenuation technique and the feature extraction technique in the frequency domain combined with a Multilayer Perceptron (MLP) neural network, an attempt has been made to determine the type and amount of four petroleum products. That's why midstream oil and gas operators need to protect every infrastructure investment with rugged, reliable measurement technology. From pipelines to tank farms, from crude oil to natural gas to LNG, Siemens has an array of high-performance field instruments to monitor the health and. Our sensor technologies are perfect for monitoring Oil, Natural Gas (NG) which includes, Methane (CH₄), Green Hydrogen (GH₂), and Carbon Dioxide (CO₂) infrastructure including production facilities, pipelines and Underground Gas Storage (UGS) sites. The most suitable, economic and reliable sensors. According to the Pipeline and Hazardous Materials Safety Administration (PHMSA), over 8,000 pipeline incidents occurred in the United States during the past decade, resulting in significant economic losses and environmental

damage.

High-precision EMS for oil pipeline monitoring and communication s



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This paper provides a comprehensive road map for pipeline monitoring. First, the paper lists the key factors that need to be considered when the topic of pipeline monitoring is touched, as ...



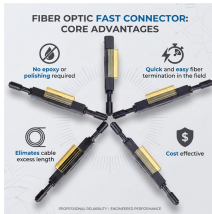
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Implementing an oil pipeline control system is very important to determine the amount and type of product in the pipeline. The proposed control ...



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