



LEAK DETECTION & PIPELINE INTEGRITY MONITORING

References

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- Alameda Water Pipeline Strain Monitoring - USA , 2010
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- Gas pipeline leak detection - Korea, Republic of , 2006
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- Grain Terminal LNG pipeline leak detection - UK , 2008
- Hydrogen Pipeline Leak Detection - Poland , 2013
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- Leak detection - third party intrusion pipeline - Switzerland , 2013
- Leak detection crude oil 9 km pipeline - Italy , 2011
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- Leak Detection K+S Potash Pipeline - Canada , 2014 , 2015
- Leak detection LPG Pipeline Fuerteventura Line - Spain , 2015
- Leak detection system for Ethylene pipeline - Germany , 2006
- LNG pipeline leak detection - UK , 2010
- LNG transfer hose monitoring - France , 2009
- Multiphase leakage detection - Italy , 2008
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- Paradip South Jetty Pipeline leak detection project - India , 2015
- Peregibella Rosone Penstock - Italy , 2019
- Peroua-Nendaz Penstock - Switzerland , 2014
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- Pipeline distributed strain monitoring - Italy , 2009
- Pipeline leak detection for LNG plant - USA , 2008
- Pipeline monitoring - USA , 2009
- Pipeline Monitoring 20 km - Canada , 2008
- Pipeline strain monitoring - Russian Federation , 2010
- Potash Water Pipeline Leak Detection
- Power Grid Network - Singapor , 2017
- Process pipeline leakage monitoring - China , 2007
- Rover Gas Grid Pipeline - USA , 2017
- Seawater pipeline leakage detection - Qatar , 2009 - 2012
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- Steam monitoring in pipeline at 500°C - Finland , 1999
- Third party intrusion detection simulation - Germany , 2009
- Under river gas pipeline strain monitoring - Switzerland , 2011
- Water pipeline leak detection - Korea, Republic of , 2009
- Third party intrusion detection simulation - Germany , 2009

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Case Studies

[Pipeline strain monitoring in the Swiss Alps - Switzerland , 2011](#)
[Esperanza project 154 km pipeline leakage detection - Chile , 2012](#)
[Ferrera-Bertonico oil pipeline - Italy , 2009](#)
[Pra-Oil Leakage detection test - Italy , 2007](#)
[SmartPipe Project - USA, 2009](#)
[SNAM Rete Gas - Gas pipeline monitoring - Italy , 2003](#)
[Berlin Brine Pipeline - Germany , 2005](#)

Selected Publications

[Fiber optic method for health assessment of pipelines subjected to earthquake-induced ground movement](#), Branko Glisic, Yao Yao, Structural Health Monitoring, November 2012; vol. 11, 6: pp. 696-711 - 2015

[Ammonia leaks in pipelines](#), Nitrogen+Syngas 333, January - February - 2015

[Detection and Localization of Leakages in Toxic/Flammable Chemicals Pipelines Using Distributed Fibre Optic Sensors](#), Daniele Inaudi, Rob de Bont, Roberto Walder, 6th International Conference on Safety & Environment in Process & Power Industry, Bologna , Italy, 13-16 April, - 2014

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[Distributed Optical Fiber Sensors for Strain and Deformation Monitoring of Pipelines and Penstocks](#). Inaudi, Geotechnical Engineering Journal of the SEAGS & AGSSEA Vol. 50 No. 1 March 2019 ISSN 0046-5828

[Detection and Localization of Leakages in Toxic/Flammable Chemicals Pipelines Using Distributed Fibre Optic Sensors](#), De Bont, Inaudi, and Walder, Nitrogen + Syngas 2015 International Conference & Exhibition, Istanbul 23-26 February 2015

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Also Available in Application Note

- Bridge Bridge Instrumentation and Structural Health Monitoring
- Building Instrumentation and Structural Health Monitoring
- Cryogenic Instrumentation & Safety Monitoring
- Dam & Dikes Instrumentation and Safety Monitoring
- FO Leak Detection System for Dams and Dikes
- FO Leak Detection in Process & Chemical Plants
- FO Leak Detection for Pipelines in Foundations
- FO Mining Instrumentation & Site Safety Monitoring
- FO LNG Pipeline Monitoring
- FO LNG Tank Monitoring
- Geothermal Monitoring
- Geotechnical & Structural Instrumentation
- Mining Instrumentation & Site Safety
- Nuclear Power Plants Instrumentation & Safety Monitoring
- Penstocks Instrumentation & Structural Health Monitoring
- Research Structural Health Assessment Systems
- Tunnel Instrumentation & Structural Health Monitoring
- Tailing Dams Monitoring