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A Data Pipeline For Phm

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Pediatric Hospital Medicine

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Salona Global Medical Device Corporation Begins Trading Today

AI or machine intelligence has been tilted in the present moment to focus on one specific area: the use of self-training algorithms to process large amounts of data. This is a necessity ... was ...

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Salona Global Medical Device Corporation Provides Update in Advance of Commencement of Trading

"We are excited for the potential of BTX-A51 to provide a meaningful therapeutic option for patients and are working aggressively to advance our pipeline of molecular glues, PROTACs and monovalent ...

BioTheryX Announces First Patient Dosed with BTX-A51 in Phase 1 Clinical Trial in Patients with Advanced Solid Tumors

There is no product currently in the pre-competitive development pipeline, but there are technologies that could ... area of pre-competitive technological development. According to data from the ...

Flights of the future

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Based on data from the National Association of Realtors ... but we still need more people in the pipeline.” So skilled labor is a big issue. The slowdown in immigration and lack of women ...

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Pipestone Energy Corp (PIPE)

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The development of oil and gas fields offshore requires specialized pipeline equipment. The structures must be strong enough to with stand the harshest environments, and ensure that production is not interrupted and remains economically feasible. However, recent events in the Gulf of Mexico have placed a new importance on maintenance and reliability. A new section; Condition Based Maintenance

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(CBM), introduces the subject of maintenance, written by Tian Ran Lin, Queensland University of Technology, and Yong Sun, CSIRO Earth Science and Resource Engineering. Two of the main objectives of CBM is maximizing reliability while preventing major or minor equipment malfunction and minimizing maintenance costs. In this new section, the authors deal with the multi-objective condition based maintenance optimization problem. CBM provides two major advantages: (1) an efficient approach for weighting maintenance objectives, and (2) a method for specifying physical methods for achieving those objectives. Maintenance cost and reliability objectives are calculated based on proportional hazards model and a control limit CBM replacement policy. Written primarily for engineers and management personnel working on offshore and deepwater oil and gas pipelines, this book covers the fundamentals needed to design, Install, and commission pipeline projects. This new section along with a thorough update of the existing chapters represents a 30% increase in information over the previous edition. Covers offshore maintenance and maintenance support system Provides the fundamentals needed to design, Install, and commission pipeline project Methods and tools to deliver cost effective maintenance cost and system reliability New section on Condition-Based Maintenance written by Tian Ran Lin, Queensland University of Technology, and Yong Sun, CSIRO Earth Science and Resource Engineering (yong.sun@csiro.au)

This book presents state-of-the-art probabilistic methods for the reliability analysis and design of engineering products and processes. It seeks to facilitate practical application of probabilistic analysis and design by providing an authoritative, in-depth, and practical description of what probabilistic analysis and design is and how it can be implemented. The

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text is packed with many practical engineering examples (e.g., electric power transmission systems, aircraft power generating systems, and mechanical transmission systems) and exercise problems. It is an up-to-date, fully illustrated reference suitable for both undergraduate and graduate engineering students, researchers, and professional engineers who are interested in exploring the fundamentals, implementation, and applications of probabilistic analysis and design methods.

Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical

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infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

Pipeline and Energy Plant Piping: Design and Technology covers the proceedings of an international conference, "Pipeline and Energy Plant Piping – Fabrication in the 80's". The book covers the total spectrum of technology relevant to pipeline fabrication, design, materials, welding process, inspection, defect acceptance, performance, and project management. The text also discusses other energy systems, such as nuclear, hydroelectric, oil, and gas transmission, to understand the technological demands of energy production and distribution. The text will be of great interest to professionals such as engineers whose line of work involves the management and regulation of piping systems.

Take a dive into data lakes "Data lakes" is the latest buzz word in the world of data storage, management, and analysis. Data Lakes For Dummies decodes and demystifies the concept and helps you get a straightforward answer the question: "What exactly is a data lake and do I need one for my business?" Written for an audience of technology decision makers tasked with keeping up with the latest and greatest data options, this book provides the perfect introductory survey of these novel and growing features of the information landscape. It explains how they can help your business, what they can (and can't) achieve, and what you need to do to create the lake that best suits your particular needs. With a minimum of jargon, prolific tech author and

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business intelligence consultant Alan Simon explains how data lakes differ from other data storage paradigms. Once you've got the background picture, he maps out ways you can add a data lake to your business systems; migrate existing information and switch on the fresh data supply; clean up the product; and open channels to the best intelligence software for to interpreting what you've stored. Understand and build data lake architecture Store, clean, and synchronize new and existing data Compare the best data lake vendors Structure raw data and produce usable analytics Whatever your business, data lakes are going to form ever more prominent parts of the information universe every business should have access to. Dive into this book to start exploring the deep competitive advantage they make possible—and make sure your business isn't left standing on the shore.

Recurrent pipeline failures continue to be a source of safety and economic risk related to processing, transporting, and distributing natural gas. Studies have shown the lack of comprehensive, integrated, and accessible risk-informed integrity management models and tools for pipeline operators is a major contributor. To address this gap, this research presents a system-level Prognosis and Health Monitoring (PHM) modeling framework for gas pipeline system integrity management to prevent or reduce the likelihood of failures. The proposed PHM approach takes into consideration all possible failure modes of the pipeline under study. It leverages the advancement of sensor technology to stream field data in real-time to perform a dynamic system-level failure analysis based on Hybrid Causal Logic (HCL) including a Dynamic Bayesian Network (DBN) corrosion model, to provide cost-effective and optimal mitigation actions such as sensor placement and maintenance schedule optimizations.

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The developed models are implemented in a software platform where the pipeline operators can observe the real-time and projected health state of the pipeline and the set of suggested actions to enhance the structural integrity of the pipeline system. The platform includes three main modules: Real-Time Health Monitoring, System-Level Reliability, and Optimal Mitigation Actions. From a safety perspective, the proposed PHM can prevent pipeline failures or reduces their likelihood by supporting pipeline operators in optimal decision-making and planning activities. To demonstrate potential benefits and performance of the proposed framework and software implementation, it is applied in a case study involving a corroding gas transmission pipeline.

The two-volume set IFIP AICT 535 and 536 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2018, held in Seoul, South Korea, in August 2018. The 129 revised full papers presented were carefully reviewed and selected from 149 submissions. They are organized in the following topical sections: lean and green manufacturing; operations management in engineer-to-order manufacturing; product-service systems, customer-driven innovation and value co-creation; collaborative networks; smart production for mass customization; global supply chain management; knowledge based production planning and control; knowledge based engineering; intelligent diagnostics and maintenance solutions for smart manufacturing; service engineering based on smart manufacturing capabilities; smart city interoperability and cross-platform implementation; manufacturing performance management in smart factories; industry 4.0 - digital twin; industry 4.0 - smart factory; and industry 4.0 - collaborative cyber-physical production and human systems.

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Major changes in gas turbine design, especially in the design and complexity of engine control systems, have led to the need for an up to date, systems-oriented treatment of gas turbine propulsion. Pulling together all of the systems and subsystems associated with gas turbine engines in aircraft and marine applications, *Gas Turbine Propulsion Systems* discusses the latest developments in the field. Chapters include aircraft engine systems functional overview, marine propulsion systems, fuel control and power management systems, engine lubrication and scavenging systems, nacelle and ancillary systems, engine certification, unique engine systems and future developments in gas turbine propulsion systems. The authors also present examples of specific engines and applications. Written from a wholly practical perspective by two authors with long careers in the gas turbine & fuel systems industries, *Gas Turbine Propulsion Systems* provides an excellent resource for project and program managers in the gas turbine engine community, the aircraft OEM community, and tier 1 equipment suppliers in Europe and the United States. It also offers a useful reference for students and researchers in aerospace engineering.

Machine Learning and Data Science in the Oil and Gas Industry explains how machine learning can be specifically tailored to oil and gas use cases. Petroleum engineers will learn when to use machine learning, how it is already used in oil and gas operations, and how to manage the data stream moving forward. Practical in its approach, the book explains all aspects of a data science or machine learning project, including the managerial parts of it that are so often the cause for failure. Several real-life case studies round out the book with topics such as predictive maintenance, soft sensing, and

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forecasting. Viewed as a guide book, this manual will lead a practitioner through the journey of a data science project in the oil and gas industry circumventing the pitfalls and articulating the business value. Chart an overview of the techniques and tools of machine learning including all the non-technological aspects necessary to be successful Gain practical understanding of machine learning used in oil and gas operations through contributed case studies Learn change management skills that will help gain confidence in pursuing the technology Understand the workflow of a full-scale project and where machine learning benefits (and where it does not)

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