

Inspection Management Software

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Concise Guide to Software Engineering - Gerard O'Regan
2022-09-24

This textbook presents a concise introduction to the fundamental principles of software engineering, together with practical guidance on how to apply the theory in a real-world, industrial environment. The wide-ranging coverage encompasses all areas of software design, management, and quality. Topics and features: presents a broad overview of software engineering, including software lifecycles and phases in software development, and project management for software engineering; examines the areas of requirements engineering, software configuration management, software inspections, software testing, software quality assurance, and process quality; covers topics on software metrics and problem solving, software reliability and dependability, and software design and development, including Agile approaches; explains formal methods, a set of mathematical techniques to specify and derive a program from its specification, introducing the Z specification language; discusses software process improvement,

describing the CMMI model, and introduces UML, a visual modelling language for software systems; reviews a range of tools to support various activities in software engineering, and offers advice on the selection and management of a software supplier; describes such innovations in the field of software as distributed systems, service-oriented architecture, software as a service, cloud computing, and embedded systems; includes key learning topics, summaries and review questions in each chapter, together with a useful glossary. This practical and easy-to-follow textbook/reference is ideal for computer science students seeking to learn how to build high quality and reliable software on time and on budget. The text also serves as a self-study primer for software engineers, quality professionals, and software managers.

Bridge Maintenance, Safety, Management, Resilience and Sustainability - Fabio Biondini 2012-06-21

Bridge Maintenance, Safety, Management, Resilience and Sustainability contains the lectures and papers presented at The Sixth International Conference on

Bridge Maintenance, Safety and Management (IABMAS 2012), held in Stresa, Lake Maggiore, Italy, 8-12 July, 2012.

This volume consists of a book of extended abstracts (800 pp) and a DVD (4057 pp) co

1st fib Congress in Osaka Japan Vol2 - FIB – International Federation for Structural Concrete 2002-01-01

Economics–Advances in Research and Application: 2013 Edition - 2013-06-21

Economics–Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Tariffs. The editors have built Economics–Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Tariffs in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Economics–Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

USDA's "discretionary Inspection" Plan for Meat and Poultry Processing Plants - United States. Congress. House. Committee on Government Operations. Human Resources and Intergovernmental Relations Subcommittee 1989

Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering and Earth Sciences - Heinz Konietzky 2004-10-15

In this fully up-to-date volume, important new developments and applications of discrete element modelling are highlighted and brought together for presentation at the First International UDEC/3DEC Symposium. Papers covered the following key areas: * behaviour of masonry structures (walls, bridges, towers, columns) * stability and deformation of tunnels and caverns in fractured rock masses * geomechanical modelling for mining and waste repositories * rock reinforcement design (anchors, shotcrete, bolts) * mechanical and hydro-mechanical behaviour of dams and foundations * rock slope stability, deformation and failure mechanisms * modelling of fundamental rock mechanical problems * modelling of geological processes * constitutive laws for fractured rock masses and masonry structures * dynamic behaviour of discrete structures. Numerical Modelling of Discrete Materials in Geotechnical Engineering, Civil Engineering, and Earth Sciences provides an ultra-modern, in-depth analysis of discrete element modelling in a range of different fields, thus proving valuable reading for civil, mining, and geotechnical engineers, as well as other interested professionals.

Software Reviews and Audits Handbook - Charles P. Hollocker 1990-10-03

A practical guide to quality evaluations for all types of software projects Software Reviews and Audits Handbook Written for persons responsible for software quality programs, as well as those who schedule and perform reviews and audits, Software Reviews and Audits Handbook offers practical guidance on quality assurance

and evaluations for all types of software projects. Packed with process definitions, this handbook describes when to use them and includes sample materials illustrating how to use them. It provides detailed discussions of implementation challenges, specific application needs, and establishes sound starting points for improving communications, the quality of delivered products, and the sense of participation and achievement. Features: A program framework for viewing product realization and process improvement projects A definitive management review process for project reviews, addressing concept closure, project definition and funding, product realization, trial readiness, and general market availability Distinct process definitions for popular product reviews (the technical review, software inspection, and walkthrough processes) An audit process for product, process, project, and program evaluations, respective of a variety of application needs Numerous checklists, forms, letters, and reports for developing documents to meet specific needs Software Reviews and Audits Handbook is the third book in the Wiley Series in Software Engineering Practice.

Software Quality. Software and Systems Quality in Distributed and Mobile Environments - Dietmar Winkler 2015-01-05

This book constitutes the refereed proceedings of the scientific track of the 7th Software Quality Days Conference, SWQD 2015, held in Vienna, Austria, in January 2015. The SWQD conference offers a range of comprehensive and valuable information by presenting new ideas from the latest research papers, keynote speeches by renowned academics and industry leaders, professional lectures, exhibits, and tutorials. The four scientific full papers accepted for SWQD were each peer reviewed by

three or more reviewers and selected out of 13 high-quality submissions. Further, four short papers were also presented and are included in this book. The papers are organized into topical sections on risk management and inspection, change impact analysis and systems testing, and software and systems architectures.

Bridge Maintenance, Safety, Management and Life-Cycle Optimization - Dan Frangopol 2010-07-07

Bridge Maintenance, Safety, Management and Life-Cycle Optimization contains the lectures and papers presented at IABMAS 2010, the Fifth International Conference of the International Association for Bridge Maintenance and Safety (IABMAS), held in Philadelphia, Pennsylvania, USA from July 11 through 15, 2010. All major aspects of bridge maintenance, s

Software Inspection Techniques to Support Project and Quality Management - Stefan Biffel 2001

Software Process Quality - Hsiang-Tao Yeh 1993

This comprehensive guide is geared for anyone responsible for designing, creating, programming, or managing a software system. Focusing on real-world software development, it offers methods, strategies, and techniques for controlling each individual process in the software lifecycle to achieve the highest quality and productivity.

Software Inspection - Tom Gilb 1993

Gilb and Graham show software professionals how to achieve high-quality software through inspection. They show how to do a formal review of documents to find errors, giving effective statistical process improvement. The book includes many examples and case studies based on actual experience at IBM, AT&T, McDonnell Douglas, and other companies.

Oversight of the Highway Bridge Program and the National Bridge Inspection Program - United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Highways and Transit (2007-) 2010

Computer Software Management - Dennis W. Fife 1977

Intelligent software systems in inspection and life management of power and process plants - A. S. Jovanovic 1997

ESD Program Management - G. Theodore Dangelmayer 2012-12-06

In today's electronics business, managing an ESD program is an integral part of a complete quality program. In fact, any electronics firm without an active ESD program puts itself and its customers at risk. This book illustrates one good example of the detail and dedication to quality that AT&T expects within its own operations and from its suppliers. Writing of the book began at a time when Ted Dangelmayer was burdened with many demands. These demands were from AT&T's own operations, internal suppliers, external suppliers, customers and others looking for a better understanding of the phenomenon of ESD, its impact and, most of all, ways to control and manage it. In a way, this book is a response to these demands by making available a reader friendly document that distills the hard-won experiences of Ted and AT&T. The information and methods in this book have been gained at no small cost and produce results that far exceed expectations. There is, however, a caveat: Success will not be obtained unless there is real management commitment. This means management must allocate the necessary resources and provide active

support to ensure that training, auditing, reporting, tracking and an aggressive corrective action program all take place successfully. Ted is an internationally recognized authority, and you will benefit greatly by listening to his advice and following his recommendations.

Proceedings of the 2012 International Conference of Modern Computer Science and Applications - Zhenyu Du 2012-08-22

This volume contains the proceedings of the 2012 International Conference of Modern Computer Science and Applications (MCSA 2012) which was held on September 8, 2012 in Wuhan, China. The MCSA 2012 provides an excellent international forum for sharing knowledge and results in theory, methodology and applications of modern computer science and applications in theoretical and practical aspects.

Managing Software Engineering Knowledge - Aybüke Aurum 2013-04-17

Software development is a complex problem-solving activity with a high level of uncertainty. There are many technical challenges concerning scheduling, cost estimation, reliability, performance, etc, which are further aggravated by weaknesses such as changing requirements, team dynamics, and high staff turnover. Thus the management of knowledge and experience is a key means of systematic software development and process improvement. "Managing Software Engineering Knowledge" illustrates several theoretical examples of this vision and solutions applied to industrial practice. It is structured in four parts addressing the motives for knowledge management, the concepts and models used in knowledge management for software engineering, their application to software engineering, and practical

guidelines for managing software engineering knowledge. This book provides a comprehensive overview of the state of the art and best practice in knowledge management applied to software engineering. While researchers and graduate students will benefit from the interdisciplinary approach leading to basic frameworks and methodologies, professional software developers and project managers will also profit from industrial experience reports and practical guidelines.

Software Engineering Reviews and Audits - Boyd L. Summers 2011-03-01

Accurate software engineering reviews and audits have become essential to the success of software companies and military and aerospace programs. These reviews and audits define the framework and specific requirements for verifying software development efforts. Authored by an industry professional with three decades of experience, *Software Engineering Reviews and Audits* offers authoritative guidance for conducting and performing software first article inspections, and functional and physical configuration software audits. It prepares readers to answer common questions for conducting and performing software reviews and audits, such as: What is required, who needs to participate, and how do we ensure success in all specified requirements in test and released configuration baselines? Complete with resource-rich appendices, this concise guide will help you: Conduct effective and efficient software reviews and audits Understand how to structure the software development life cycle Review software designs and testing plans properly Access best methods for reviews and audits Achieve compliance with mandatory and contractual software requirements The author includes checklists, sample forms, and a glossary of industry

terms and acronyms to help ensure formal audits are successful the first time around. The contents of the text will help you maintain a professional setting where software is developed for profit, increase service quality, generate cost reductions, and improve individual and team efforts.

Inspection Report on the Soft Dollar Practices of Broker-dealers, Investment Advisers and Mutual Funds - United States. Securities and Exchange Commission. Office of Compliance Inspections and Examinations 1998

Software Inspection Process - Robert G. Ebenau 1994
A comprehensive guide to implementing a quality improvement method that exposes program flaws in the early stages of software design and development. A step-by-step overview of the inspection process is mapped out first. The book goes on to explore ways to integrate inspections into existing development procedures and manage the process across the scope of an entire project.

Introduction to Software Quality - Gerard O'Regan 2014-05-22

This textbook describes the approaches used by software engineers to build quality into their software. The fundamental principles of software quality management and software process improvement are discussed in detail, with a particular focus on the CMMI framework. Features: includes review questions at the end of each chapter; covers both theory and practice, and provides guidance on applying the theory in an industrial environment; examines all aspects of the software development process, including project planning and tracking, software lifecycles, software inspections and testing, configuration management, and software quality

assurance; provides detailed coverage of software metrics and problem solving; describes SCAMPI appraisals and how they form part of the continuous improvement cycle; presents an introduction to formal methods and the Z specification language; discusses UML, which is used to describe the architecture of the system; reviews the history of the field of software quality.

Guidelines for Asset Integrity Management - CCPS (Center for Chemical Process Safety) 2017-01-06

This book is an update and expansion of topics covered in Guidelines for Mechanical Integrity Systems (2006). The new book is consistent with Risk-Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms. Also, example testing an inspection programs is included for various types of equipment and systems. Guidance and examples are provided for selecting and maintaining critical safety systems.

CMBEBIH 2019 - Almir Badnjevic 2019-05-10

This volume gathers the proceedings of the International Conference on Medical and Biological Engineering, which was held from 16 to 18 May 2019 in Banja Luka, Bosnia and Herzegovina. Focusing on the goal to 'Share the Vision', it highlights the latest findings, innovative solutions and emerging challenges in the field of Biomedical Engineering. The book covers a wide range of topics, including: biomedical signal processing, medical physics, biomedical imaging and radiation protection, biosensors and bioinstrumentation, bio-micro/nano technologies, biomaterials, biomechanics, robotics and minimally invasive surgery, and cardiovascular, respiratory and endocrine systems engineering. Further topics include bioinformatics and computational biology, clinical engineering and health technology assessment,

health informatics, e-health and telemedicine, artificial intelligence and machine learning in healthcare, as well as pharmaceutical and genetic engineering. Given its scope, the book provides academic researchers, clinical researchers and professionals alike with a timely reference guide to measures for improving the quality of life and healthcare.

30th European Symposium on Computer Aided Chemical Engineering - Sauro Pierucci 2020-10-23

30th European Symposium on Computer Aided Chemical Engineering, Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Milan, Italy, May 24-27, 2020. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event Offers a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries

Official Gazette of the United States Patent and Trademark Office - 2002

Supporting Management Decisions in the Software Inspection Process - Michael Halling 2002

From Total Quality Control to Lean Six Sigma - Andrea Chiarini 2012-05-10

The main purpose of this paper is to compare and discuss the evolution of six important management systems: Japanese Total Quality Control (JTQC), Total Quality Management (TQM), Deming's System of Profound Knowledge,

Business Process Reengineering (BPR), Lean Thinking and Six Sigma. Indeed the contribution of this work lies in the concurrent analysis and classification, by the means of a literature review, of the results and critical implementation factors of the six systems. Deming's Plan-Do-Check-Act (PDCA) has been used to classify the findings from the literature review.

Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations - Hiroshi Yokota
2021-04-20

Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2020), held in Sapporo, Hokkaido, Japan, April 11–15, 2021. This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020, including the T.Y. Lin Lecture, 9 Keynote Lectures, and 561 technical papers from 40 countries. The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance, safety, management, life-cycle sustainability and technological innovations of bridges. Major topics include: advanced bridge design, construction and maintenance approaches, safety, reliability and risk evaluation, life-cycle management, life-cycle sustainability, standardization, analytical models, bridge management systems, service life prediction, maintenance and management strategies, structural health monitoring, non-destructive testing and field testing, safety, resilience, robustness and redundancy, durability enhancement, repair and rehabilitation, fatigue and corrosion, extreme loads,

and application of information and computer technology and artificial intelligence for bridges, among others. This volume provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance, safety, management, life-cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including engineers, researchers, academics and students from all areas of bridge engineering.

Highway Bridge Inspections - United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Highways and Transit 2007

Intelligent software systems in inspection and life management of power and process plants - A. S. Jovanovic
1997

A Practical Approach to Software Quality - Gerard O'Regan 2012-11-03

A brief but comprehensive introduction to the field and pragmatic guidance on the implementation of a sound quality system in the organization. It provides an enhanced knowledge of software inspections, metrics, process involvement, assessment of organization, problem solving, customer satisfaction surveys, the CMM, SPICE, and formal methods. Sample material on software inspections, metrics, and customer satisfaction can be adapted by readers to their respective organizations. In addition, readers will gain a detailed understanding of the principles of software quality management and

software process improvement. Concepts can then be readily applied to assist improvement programs within organizations.

Software Inspection Complete Self-Assessment Guide - Gerardus Blokdyk 2018-03-07

Is Supporting Software inspection documentation required? Do we cover the five essential competencies- Communication, Collaboration, Innovation, Adaptability, and Leadership that improve an organization's ability to leverage the new Software inspection in a volatile global economy? Have the types of risks that may impact Software inspection been identified and analyzed? Who are the Software inspection improvement team members, including Management Leads and Coaches? What are your most important goals for the strategic Software inspection objectives? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, Cx0 etc... - they are the people who rule the future. They are the person who asks the right questions to make Software inspection investments work better. This Software inspection All-Inclusive Self-Assessment enables You to be that person.

All the tools you need to an in-depth Software inspection Self-Assessment. Featuring 709 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Software inspection improvements can be made. In using the questions you will be better able to: - diagnose Software inspection projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Software inspection and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Software inspection Scorecard, you will develop a clear picture of which Software inspection areas need attention. Your purchase includes access details to the Software inspection self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

2021 International Conference on Big Data Analytics for Cyber-Physical System in Smart City - Mohammed Atiquzzaman 2022-01-01

This book gathers a selection of peer-reviewed papers presented at the third Big Data Analytics for Cyber-Physical System in Smart City (BDCPS 2021) conference, held in Shanghai, China, on Nov. 27, 2021. The contributions, prepared by an international team of scientists and engineers, cover the latest advances made in the field of machine learning, and big data analytics methods and approaches for the data-driven co-design of communication, computing, and control for smart cities.

Given its scope, it offers a valuable resource for all researchers and professionals interested in big data, smart cities, and cyber-physical systems.

Underwater Inspection and Repair for Offshore Structures

- John V. Sharp 2021-04-06

UNDERWATER INSPECTION AND REPAIR FOR OFFSHORE STRUCTURES

Benefit from a much-needed, up-to-date handbook on underwater inspection and repair processes and technologies Underwater Inspection and Repair for Offshore Structures fills a gap in the literature to provide an overview of the inspection and repair processes for both steel and concrete offshore structures. Authors and noted experts on the topic John V. Sharp and Gerhard Esdal guide readers through the reasons why inspection and repair are performed and how both are linked to the management of structural integrity, statutory requirements, and various types of damage. The book addresses critical topics, including the execution and planning of inspection and repair, the tools and methods used, and their deployment underwater. The authors put particular focus on steel and concrete offshore oil and gas installations, but the content is also applicable to the substructures of offshore wind turbines. Underwater Inspection and Repair for Offshore Structures is complementary to the authors' book Ageing and Life Extension of Offshore Structures, also from Wiley. This important book: Covers current inspection and monitoring techniques to evaluate existing structures Includes coverage of robotic (ROV) inspection and repair methods Provides an overview of repair and maintenance techniques applicable to the splash-zone and underwater operations Written for engineers, designers, and safety auditors working with offshore structures. Underwater Inspection and Repair for Offshore Structures

is a comprehensive resource for understanding how to effectively inspect and repair these vulnerable structures.

Issues in Software Research, Design, and Application: 2013 Edition - 2013-05-01

Issues in Software Research, Design, and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Software Research. The editors have built Issues in Software Research, Design, and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Software Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Software Research, Design, and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. SY/T 6597-2018 English Translation of Chinese Standard - <https://www.codeofchina.com>
1 Scope This standard specifies the technical requirements for in-line inspections such as geometry inspection, metal loss inspection, crack inspection and centerline mapping of oil & gas pipelines. This standard is applicable to in-line inspection of onshore steel oil & gas pipelines, and may be referenced for in-line inspection of submarine steel oil & gas pipelines. 2

Normative references The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 32167 Oil and gas pipeline integrity management specification SY/T 0087.5 Standard of steel pipeline and tank corrosion assessment - Part 5: Comprehensive analysis of corrosion data for oil and gas pipeline SY/T 5536 Specification for operation of crude oil pipelines SY/T 5922 The operation regulation of gas pipeline

Software Inspection A Complete Guide - 2020 Edition - Gerardus Blokdyk 2020-01-28

How do you determine the key elements that affect Software inspection workforce satisfaction, how are these elements determined for different workforce groups and segments? What is effective Software inspection? Can you adapt and adjust to changing Software inspection situations? How do you measure efficient delivery of Software inspection services? Are you maintaining a past-present-future perspective throughout the Software inspection discussion? This valuable Software Inspection self-assessment will make you the accepted Software Inspection domain veteran by revealing just what you need to know to be fluent and ready for any Software Inspection challenge. How do I reduce the effort in the Software Inspection work to be done to get problems solved? How can I ensure that plans of action include every Software Inspection task and that every Software Inspection outcome is in place? How will I save time investigating strategic and tactical options and ensuring Software Inspection costs are low? How can I deliver tailored Software Inspection advice instantly with structured going-forward plans? There's no better

guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Software Inspection essentials are covered, from every angle: the Software Inspection self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Software Inspection outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Software Inspection practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Software Inspection are maximized with professional results. Your purchase includes access details to the Software Inspection self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Software Inspection Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Lean Organization: from the Tools of the Toyota Production System to Lean Office - Andrea Chiarini
2012-08-04

Lean Organization for Excellence describes the right way to implement lean thinking inside both manufacturing and service industries. After explaining the origins of the concept and discussing 'wastes' and value added, the book aims to set out a precise path of action. To this end, the so-called Hoshin Kanri method of defining business objectives and targets is explained, and a Value Stream Mapping tool that serves to identify all wastes is described. Subsequent chapters cover each of the TPS (Toyota Production System) tools, from 5S to SMED, and special attention is devoted to the Ducati case study, in which tools such as 5S and Kanban are applied. Lean metrics and the innovative Value Stream Accounting are discussed, and the closing chapter focuses on Lean Office for the service industry. Each chapter includes illustrations and tables relating to practical cases concerning the subject under consideration, based on real consultancy experiences.

Water and Wastewater Pipeline Assessment Technologies - Justin Starr 2021-06-01

Water and wastewater infrastructure are a somewhat invisible, yet critical, part of modern life. Incredibly, many buried assets have been in service for 50-100 years and are still in good condition. Conversely, other systems fail well before their predicted design lives, causing property damage, injury, and even loss of life. In many cases, early detection could have prevented catastrophic failure, and understanding the state of underground infrastructure has become a key priority for many municipalities.

Industry has responded with a number of new and innovative technologies for condition assessment, however, understanding these tools can be difficult, as many vendors treat their proprietary systems as trade secrets. Water and Wastewater Pipeline Assessment Technologies: Classification Systems, Sensors, and Results Interpretation provides a thorough guide to the technical workings of some of the most popular water and wastewater assessment technologies available, including CCTV crawlers, acoustic listening devices, laser sensors, 360 °video cameras, pipe penetrating radar, and more. Features: Presents an overview of current technologies in CCTV inspection, including next generation video formats, high-definition resolution, and fisheye/sidescan technology. Provides helpful tips and tricks to cut through technical jargon and identify the technological specifications to compare between multiple vendors. Examines the pros and cons of competing technologies including laser and lidar, and provides an overview of unique approaches such as Pipe Penetrating Radar, Focused Electrode Leak Location, and more. Highlights the importance of coding standards, data management, and software tools that can be leveraged to create a successful asset management program. Water and Wastewater Pipeline Assessment Technologies: Classification Systems, Sensors, and Results Interpretation provides a mixture of theory and real-world, practical considerations ranging from deployment tips and data exchange formats to the technical limitations of different technologies. The book is a valuable resource for municipal employees, project engineers, and others involved in designing and implementing major inspection programs.