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system reliability}, author={prasad j.
dongale}, year={2008} }

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EQUIPMENT CONDITION ASSESSMENT AND ITS IMPORTANCE IN ...

As part of equipment condition assessment method for transformer and circuit breaker, failure modes and maintenance practices for these equipment was reviewed. Based on

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In this review, parameters were selected for condition assessment which will provide significant information about the equipment condition and will also justify the cost and efforts.

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Equipment condition assessment and its importance in ... Starting a condition assessment program is a necessity for water utilities facing an aging infrastructure. Such a program will not only allow the utility to

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identify and prioritize its water mains in need of rehabilitation, but it will also serve as a cornerstone of an asset management program.

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The assessment of HI is done by a competent Condition Monitoring (CM) service provider using the full range of CM tools, e.g. vibration, acoustic emission, oil sampling, thermography, performance monitoring, valve

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monitoring, Operator Driven
Reliability, and even the most
common of all monitoring methods –
tactile senses and intuition – as
information sources.

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An asset condition assessment (ACA)
is most commonly associated with
organizations that manage physical
assets, such as bridges, roads, and

Read Free Equipment Condition Assessment And Its Importance In equipment, and is used to decide upon preventative...

Asset Condition Assessment Definition
- Investopedia
Condition assessment is relatively
routine and predominantly involves
visual inspection with desk studies

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based on guidance documents (The Highways Agency, 1995), but can also on rare occasions include various forms of non-destructive evaluation (NDE) technology such as ground penetrating radar (GPR), impact echo (IE) and imaging (Gucunski et al., 2010). These are intensive short-term

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campaigns that evaluate the state of a
bridge at an instant in time.

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Standardize the process with a facility
condition assessment. It ' s a useful
tool for assessing your equipment ' s
ability to meet your needs. Data on
equipment health can help you: Plan
for upcoming expenditures. Predict

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the equipment ' s remaining life.

Focus your preventive maintenance
where it ' s needed most.

Why You Need to Do a Facility Condition Assessment

Starting a condition assessment
program is a necessity for water

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utilities facing an aging infrastructure. Such a program will not only allow the utility to identify and prioritize its water mains in need of rehabilitation, but it will also serve as a cornerstone of an asset management program.

Condition Assessment: The

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Check that the electrical equipment is in good condition. Many faults with work equipment can be found during a simple visual inspection: Switch off and unplug the equipment before you start any...

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Work using electrically powered
equipment - Electrical ...

A Facility Condition Assessment (FCA)
Template is used to evaluate the
condition of a building, its assets and
its systems needed to perform its
intended function. This template can
be used by architects, engineers,

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skilled-trade workers and other
construction professionals in
performing FCAs to accurately assess
a facility ' s condition and help clients
create a repair and maintenance plan.

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Transmission and Distribution Electric Utilities have a vast amount of assets distributed over their system in the form of various equipment. As part of an asset management program, electric utilities keep focusing on the inspection and maintenance activities of these assets to improve system

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Its Importance in performance, reliability, and to ensure cost-effective expenditures. Therefore methodology that will reflect these inspection and maintenance efforts in terms of overall condition of the equipment is needed. Also techniques are needed to assess the impact of inspection and maintenance activities

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its importance on the overall reliability of systems performance. To achieve this, a methodology for the assessment of equipment condition and the estimation of the health index for transformers and circuit breakers was developed. After that, a technique to estimate the failure rate from the

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equipment health index was used.

Then an IEEE test case was selected to demonstrate its impact on system reliability indices with the help of a predictive reliability assessment software tool, Milsoft Utility Solution. As part of equipment condition assessment method for transformer

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Its Importance, failure modes and maintenance practices for these equipment was reviewed. Based on this review, parameters were selected for condition assessment which will provide significant information about the equipment condition and will also justify the cost and efforts. For each of

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the parameters, a score and weight were defined, and guidelines were developed to assign them. Also, ways in which online monitoring systems can contribute to equipment condition assessment were presented briefly. A technique was used to convert the equipment health index into its failure

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rate. Then an IEEE reliability test case was modeled using the Milsoft software, incorporating this estimated failure rate and studied system's behavior in terms of reliability indices. It was observed that developing such models will provide more realistic information about the system's actual

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Its Importance and will demonstrate the way in which impact of the inspection and maintenance efforts can be accounted.

This book introduces the reader to the major components of a high voltage system and the different insulating

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Its Importance In materials applied in particular equipments. During a review of these materials, measurable properties suitable for condition assessment are identified. Analyses are included of some of the insulation fault scenarios that may occur in power equipment. The basic facilities for carrying out

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tests on the internal and external insulation structures at high and low voltages are described. Tests and measurements according to specifications, on-site requirements and research investigations are considered. Advances in the application of digital techniques for

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detection and analyses of partial discharges are discussed and methods in use, or under development, for service condition monitoring are described. These include the utilisation of new sensors, the solution of online problems associated with noise rejection and the adaptation of

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Its importance in
artificial intelligence techniques for
incipient fault diagnosis.

How to use industry standards to
create complete, consistent, and
accurate equipment inventories The

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National Institute of Science and Technology estimates that the loss of information between the construction of buildings and their operation and maintenance costs facility owners \$15.8 billion every year. This phenomenal loss is caused by inconsistent standards for capturing

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information about facilities and their equipment. In *Equipment Inventories for Owners and Facility Managers*, Robert Keady draws on his twenty+ years of experience in facility management and his intimate knowledge of CSI classification systems and standards to tackle this

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problem-head-on. Using standards already in use in the AEC industry, he provides the road map for capturing everything owners and facility managers need to know to operate and maintain any facility. This comprehensive, step-by-step guide:
Explains the different types of

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Its Importance In equipment inventories and why they are important Identifies and describes the types of information that should be captured in an equipment inventory Describes and compares the different industry standards (CSI OmniClass™ and UniFormat™; COBie; and SPie) that can be used for equipment

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Its Importance Provides best practices for identifying and tagging equipment
Walks through the equipment inventory process with real-world examples and best practices
Provides the tools for conducting the equipment inventory—tables of all the possible information and data

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that need to be collected, and fifty maps of workflows that can be used to capture that data immediately

Engineering technology development and implementation play an important role in making the industry more sustainable in an increasingly

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This book covers significant recent developments in both fundamental and applied research in the engineering field. Domains of application include, but are not limited to, Intelligent Control Systems and Optimization, Signal Processing, Sensors, Systems

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Modeling and Control In Robotics and Automation, Industrial and Electric Engineering, Production and Management. This book is an excellent reference work to get up to date with the latest research and developments in the fields of Automation, Mechatronics and

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Industrial Engineering. It aims to provide a platform for researchers and professionals in all relevant fields to gain new ideas and establish great achievements in scientific development.

"Illustrates state-of-the-art planning,

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design, operational, and managerial methods. Demonstrates novel approaches to utilizing resources in an aging electric power delivery infrastructure-maximizing system effectiveness and maintaining competitive financial performance while reinforcing good customer

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The volume includes a set of selected papers extended and revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen,

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China. Volume 1 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 140 high-

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quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof. Yanwen Wu. On behalf of this volume, we would like to express our sincere appreciation to all of authors and

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referees for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

This book offers a broad overview of asset management processes for

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different utilities, with a special emphasis on energy and water. It provides readers with important practical considerations concerning the development of new competitive structures and procedures for guaranteeing a sufficient supply of energy and water in a regulated

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environment, using clearly defined
technical and economic cornerstones.
On the one hand, asset owners expect
suitable interests from their
investment and business growth; on
the other hand, regulators focus more
on a reliable and cost-effective
customer supply. This book shows

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How to take into consideration these different perspectives in the process of designing new structures, and how to guarantee organizational transparency. It describes essential principles and boundary conditions for ensuring the optimal use of resources in a network, covering

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its importance in issues relating to equipment service life, IT landscape and computer programs, operational costs management, and investment and maintenance strategies, highlighting their impact on the organization of the company. This thoroughly revised and updated second edition, includes

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extensive information about IEC
standard (IEC/TS 63060), and cover
operation research methods focusing
on the optimization of the
maintenance tasks. Furthermore, a
discussion on the political
environment has been included, with
a special emphasis on the European

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situation and the "Green Deal"

specifically, some measures to cope with the topic of energy transition are presented. Last, but not least, a brand-new chapter on condition assessment has been included.

Engineering Technology and

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Applications contains the contributions presented at the 2014 International Conference on Engineering Technology and Applications (ICETA 2014, Tsingtao, China, 29-30 April 2014). The book is divided into three main topics: Civil and environmental engineering

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Electrical and computer engineering
Mechanical engineeringCon

Good aging infrastructure
management consists of optimizing
the choice of equipment and its
refurbishment while also making
compatible changes in all those

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operating and ownership policies, the whole combination aimed at optimizing the business results the power system owner desires. Both a reference and tutorial guide, this second edition of Aging Power Delivery Infrastructures provides updated coverage of aging power

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delivery systems, the problems they cause, and the technical and managerial approaches that power systems owners can take to manage them. See What ' s New in the Second Edition: All chapters have been updated or are completely new
Comprehensive discussions of all

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issues related to equipment aging
Business impact analysis and models
and engineering business studies of
actual utility cases Strategy and policy
issues and how to frame and
customize them for specific situations
This book looks at the basics of
equipment aging and its system and

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Its importance in business impacts on utilities. It covers various maintenance, service and retrofit methods available to mitigate age-related deterioration of equipment. It also presents numerous configuration and automation upgrades at the system level that can deal with higher portions of aging

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equipment in the system and still
provide good service at a reasonable
cost.

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