

Reading free Effective infrastructure asset management arthur d little [PDF]

Public Infrastructure Asset Management, Second Edition Infrastructure Asset Management Manual Information Systems for Engineering and Infrastructure Asset Management Infrastructure Asset Management Infrastructure as an Asset Class Infrastructure Asset Management with Power System Applications Asset Management Decision-Making For Infrastructure Systems Whole-life Infrastructure Asset Management Infrastructure Asset Management Integrated Asset Management for Corridor Infrastructure Strategic Asset Management of Water Supply and Wastewater Infrastructures Infrastructure Asset Management Standard Requirements INTERDEPENDENT INFRASTRUCTURE Getting the Most Out of Your Infrastructure Assets An Interdependent Infrastructure Asset Management Framework for Public Facilities Infrastructure Asset Management with Power System Applications Infrastructure Asset Management Standard Requirements Asset Management of Physical Infrastructure: Managerial Frameworks, Policy, and Practice International Infrastructure Management Manual The Handbook of Infrastructure Investing Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management Definitions, Concepts and Scope of Engineering Asset Management PRINCIPLES OF HIGHWAY INFRASTRUCTURE ASSET MANAGEMENT. Infrastructure Reporting and Asset Management Infrastructure Investing Cases on Optimizing the Asset Management Process Whole-Life Value-Based Decision-Making in Asset Management Asset Management for Infrastructure Systems Physical Infrastructure International Infrastructure Management Manual Guidance Document for Highway Infrastructure Asset Valuation Infrastructure Asset Management Implementing Asset Management: a Practical Guide Implementing Asset Management GEOGRAPHIC INFORMATION SYSTEMS FOR INFRASTRUCTURE ASSET MANAGEMENT. Whole-life Value-based Decision-making in Asset Management New Zealand Infrastructure Asset Management Manual Principles of Asset Management Asset Management Asset Management for the Roads Sector

Public Infrastructure Asset Management, Second Edition

2013-07-29

the latest tools and techniques for managing infrastructure assets fully updated throughout this practical resource provides a proven cost effective infrastructure asset management framework that integrates planning design construction maintenance rehabilitation and renovation public infrastructure asset management second edition describes the most current methodologies for effectively managing roads bridges airports utility services water and waste facilities parks public buildings and sports complexes this comprehensive guide covers information management and decision support systems including proprietary solutions and new technological developments such as cloud storage the book discusses total quality management economics life cycle analysis and maintenance rehabilitation and reconstruction programming up to date examples and real world case studies illustrate the practical applications of the concepts presented in this thoroughly revised reference this new edition features planning needs assessment and performance indicators database management data needs and analysis inventory historical and environmental data in service monitoring and evaluation data performance modeling and failure analysis design for infrastructure service life construction maintenance rehabilitation and reconstruction strategies policies and treatment alternatives dealing with new or alternate concepts prioritization optimization and work programs integrated infrastructure asset management systems visual ims an illustrative infrastructure management system and applications available asset management system and commercial off the shelf providers benefits of implementing an asset management system sustainability environmental stewardship and asset management future directions for infrastructure asset management

Infrastructure Asset Management Manual

2000

engineering and infrastructure assets maintain the lifeline of economies it is therefore critical to manage these assets in such a way that they provide a consistent level of service throughout their lifecycle management of asset lifecycle however is information intensive and utilises a plethora of information systems the role of theses systems in asset management is much more profound it extends beyond the organizational boundaries and addresses business relationships with external stakeholders to deliver enhanced level of business outcomes in doing so information systems are not only required to translate business strategic considerations into action but are also expected to produce learnings and feedback that informs business strategy and aids in strategic reorientation

Information Systems for Engineering and

Infrastructure Asset Management

2012-11-08

clear comprehensive guidance toward the global infrastructure investment market infrastructure as an asset class is the leading infrastructure investment guide with comprehensive coverage and in depth expert insight this new second edition has been fully updated to reflect the current state of the global infrastructure market its sector and capital requirements and provides a valuable overview of the knowledge base required to enter the market securely step by step guidance walks you through individual infrastructure assets emphasizing project financing structures risk analysis instruments to help you understand the mechanics of this complex but potentially rewarding market new chapters explore energy renewable energy transmission and sustainability providing a close analysis of these increasingly lucrative areas the risk profile of an asset varies depending on stage sector and country but the individual structure is most important in determining the risk return profile this book provides clear detailed explanations and invaluable insight from a leading practitioner to give you a solid understanding of the global infrastructure market get up to date on the current global infrastructure market investigate individual infrastructure assets step by step examine illustrative real world case studies understand the factors that determine risk return profiles infrastructure continues to be an area of global investment growth both in the developed world and in emerging markets conditions continually change markets shift and new considerations arise only the most current reference can supply the right information practitioners need to be successful infrastructure as an asset class provides clear reference based on the current global infrastructure markets with in depth analysis and expert guidance toward effective infrastructure investment

Infrastructure Asset Management

2000

infrastructure asset management with power system applications is about infrastructure asset management which can be expressed as the combination of management financial economic and engineering applied to physical assets with the objective of providing the required level of service in the most cost effective manner it includes management of the whole lifecycle of a physical asset from design construction commission operation maintenance modification decommissioning and disposal it covers budget issues and focuses on asset management of an infrastructure for energy i e the electric power system features offers a comprehensive reference book providing definitions terminology and basic theories as well as a comprehensive set of examples from a wide range of applications for the electric power system and its components spans a wide range of applications for the electric power system area including real data and pictures contains results from recently published research and application studies includes a wide range of application examples for the electric power systems area from hydro nuclear and wind plus shows future trends contributes to the overall goals of

Infrastructure as an Asset Class

2016-07-05

this textbook provides practical and concrete guidance for the step by step implementation of decision making for infrastructure asset management examples are used to illustrate how data from condition assessment are used to develop performance models to estimate the effectiveness of investments that are prioritized and scheduled to accomplish reliable and convenient infrastructure for the wellbeing of the public and regional economic competitiveness book illustrates numerous worked problems to clarify ambiguity in developing a decision making platform to prioritize assets and distribute budgets effectively and efficiently ensures reader understanding of the benefits and challenges of infrastructure asset management provides a step by step guide for the development of each component of an asset management decision making system includes worked examples to clarify decision making and budget allocation process

Infrastructure Asset Management with Power System Applications

2018-03-29

what about infrastructure asset management analysis of results does infrastructure asset management appropriately measure and monitor risk what are the essentials of internal infrastructure asset management management what are internal and external infrastructure asset management relations ask yourself are the records needed as inputs to the infrastructure asset management process available defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role in every group company organization and department unless you are talking a one time single use project 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 cxo etc they are the people who rule the future they are the person who asks the right questions to make infrastructure asset management investments work better this infrastructure asset management all inclusive self assessment enables you to be that person all the tools you need to an in depth infrastructure asset management self assessment featuring 712 new and updated case based questions organized into seven core areas of process design this self assessment will help you identify areas in which infrastructure asset management improvements can be made in using the questions you will be better able to diagnose infrastructure asset management projects initiatives organizations businesses

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~~and processes using accepted diagnostic standards and practices implement~~
evidence based best practice strategies aligned with overall goals integrate
recent advances in infrastructure asset management and process design
strategies into practice according to best practice guidelines using a self
assessment tool known as the infrastructure asset management scorecard you
will develop a clear picture of which infrastructure asset management areas
need attention your purchase includes access details to the infrastructure
asset management 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

Asset Management Decision-Making For Infrastructure Systems

2022-04-25

water and wastewater companies operating all around the world have faced rising asset management and replacement costs often to levels that are financially unsustainable management of investment needs while meeting regulatory and other goals has required a better understanding of what customers demand from the services they pay for and the extent to which they are willing to pay for improvements or be compensated for a reduction in performance development of models to predict asset failure and to identify and concentrate investment on critical assets improved management systems improved accounting for costs and benefits and their incorporation within an appropriate cost benefit framework incorporation of risk management techniques utilisation of advanced maintenance techniques including new rehabilitation failure detection technologies enhancements in pipeline materials technologies and laying techniques these papers developed from lesam 2007 for inclusion in strategic asset management of water supply and wastewater infrastructures are focused on the techniques technologies and management approaches aiming at optimising the investment in infrastructure while achieving demanded customer service standards and they provide an opportunity to gain access to the latest discussion and developments at the leading edge in this field this book will be essential reading for utility operators and managers regulators and consultants

Whole-life Infrastructure Asset Management

2009

how does the organization define manage and improve its infrastructure asset management processes how much does infrastructure asset management help is there any existing infrastructure asset management governance structure meeting the challenge are missed infrastructure asset management opportunities costing us money will team members regularly document their infrastructure asset management work 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

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it this self assessment empowers people to do just that whether their title
is entrepreneur manager consultant vice president cxo etc they are the people
who rule the future they are the person who asks the right questions to make
infrastructure asset management investments work better this infrastructure
asset management all inclusive self assessment enables you to be that person
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asset management 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

Infrastructure Asset Management

2018-05-03

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by the above license are retained by the author abstract infrastructure asset
management iam emerged in the 1970s known then as terotechnology and then
received increasing attention after the catastrophic explosion in the
offshore oil and gas platform piper alpha in july 1988 infrastructure assets
play an important role in underpinning the well being social cohesion and
economic growth of a society offering transportation energy supply
telecommunication health care education accommodation and other services to
most citizens in megacities with high population density such as hong kong
infrastructure asset management becomes a puzzle for many infrastructure
administrative sectors highly complex and dense districts have numerous urban
infrastructure assets such as highways drinking water networks gas pipes
public housing and telecommunication networks making it more difficult to

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~~achieve good infrastructure asset management more than twenty sectors share~~
the underground space to manage their own utilities in hong kong compelling
the asset managers to communicate and collaborate with each other for better
asset management to improve its urban management efficiency hong kong has an
urgent need to develop its cross sector iam practices the aim of this
research is to re engineer an interdependent iam framework for public
facilities in order to help clarify the requirements and enable the
establishment of a smart systematic inter network iam system for achieving
the efficiency effectiveness transparency accuracy and safety of iam in hong
kong and other high density megacities this research began with a detailed
literature review of infrastructure asset management and interdependency
based on the literature review correspondent semi structured interviews were
conducted to unveil the current practice and weakness of infrastructure asset
management in hong kong three case studies of three typical infrastructure
assets in hong kong related to public housing underground utilities and
temporary transportation management were undertaken to demonstrate the
process flow of infrastructure management by using flow diagrams system
dynamic modelling was adopted to simulate the interactions within such iam in
causal loop diagrams to reveal the interdependencies qualitatively a
validation questionnaire survey was designed and implemented to validate the
research outcomes obtained generic causal loop diagrams have been developed
from the individual causal loop diagrams to represent the interdependencies
among general cases on iam in this research a dependency matrix has been
developed to illustrate the level of dependency as well as types of
interdependencies while asset hierarchy has been introduced to categorize and
quantify the interdependencies of infrastructures the dynamic interactions of
different stakeholders and systems in the interdependent infrastructure
network have been demonstrated in flow diagrams and further elaborated in
causal loop diagrams feedback loops identified from causal loop diagrams
assisted in analyzing the infrastructure asset management structures
performances and problems the developed generic causal models for general
cases on iam could not only benefit the overall urban development in hong
kong but also shed light on other similar megacities for continuous
improvement subjects engineering management infrastructure economics
management

Integrated Asset Management for Corridor Infrastructure

2009-09-14

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Strategic Asset Management of Water Supply and Wastewater Infrastructures

2018-02-27

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~~this book is about infrastructure asset management which can be expressed as~~
the combination of management financial economic and engineering applied to
physical assets with the objective of providing the required level of service
in the most cost effective manner it includes management of the whole
lifecycle of a physical asset from design construction commission operation
maintenance modification decommissioning and disposal it covers budget issues
and focuses on asset management of an infrastructure for energy i e the
electric power system

Infrastructure Asset Management Standard Requirements

2017-01-26

infrastructure asset management standard requirements

INTERDEPENDENT INFRASTRUCTURE

2002

the intent of the text is not to focus on the tools and techniques of asset management since these are dealt with extensively within other guidance documents and textbooks but to place those within a strategic and tactical context of organisational development in asset management importantly by bringing together international best practice and research together with critically related knowledge domains that underpin the landscape of the discipline the intent is to address the development of asset management capabilities within organisations and the challenges of deploying asset management skills in organisations this is a particularly important challenge in developed and emerging economies in broad terms the book will integrate concepts of strategic management with those of asset management portfolio programme and project management notions of the intelligent client creation and enhancement of organisational capabilities in am as an organisational change initiative

Getting the Most Out of Your Infrastructure Assets

2017-01-26

manual provides guidelines for best management practices for all infrastructure assets in the public and private sectors at the lowest life cycle cost

An Interdependent Infrastructure Asset Management Framework for Public Facilities

2018

a comprehensive overview of cutting edge infrastructure investment topics from sector experts infrastructure investing is one of the fastest growing

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~~and most complex asset classes facing investment professionals practitioners~~
and academics the handbook of infrastructure investing examines this dynamic
discipline by featuring contributions from numerous investment experts in
each sector salient topics include timelines for domestic and international
infrastructure investing progression of strategies and present day trends
challenges of successful infrastructure programs with labor unions events in
history that have ushered in new reforms and much more unearths some of the
biggest investment opportunities available and addresses how to make money
while meeting other portfolio investment objectives environmental socially
conscious and governance principles pro labor investing and other collateral
investment objectives offers insights from some of the best minds in the
business covers the resurgence in transportation the types of deals
associated with it and how transportation finance has changed contains
commentary from public pension funds endowments foundations and family office
investment professionals provides an overview of the traditional and
alternative energy sector and the abundant investment opportunities within it
as infrastructure investing continues to grow you ll need to enhance your
understanding of this field the handbook of infrastructure investing will get
you up to speed on all the issues associated with it and provide a dynamic
working guide to building an infrastructure investment program

Infrastructure Asset Management with Power System Applications

2018

worldwide there is a growing interest in efficient planning and the design
construction and maintenance of transportation facilities and infrastructure
assets the 3rd international conference on transportation infrastructure icti
2014 pisa april 22 25 2014 contains contributions on sustainable development
and preservation of transportation infrastructure assets with a focus on eco
efficient and cost effective measures sustainability eco efficiency and
conservation in transportation infrastructure asset management includes a
selection of peer reviewed papers on a wide variety of topics advanced
modeling tools lca lcc bca performance prediction design tools and systems
data management monitoring and evaluation emerging technologies and
equipments innovative strategies and practices environmental sustainability
issues eco friendly design and materials re use or recycling of resources
pavements tracks and structures case studies sustainability eco efficiency
and conservation in transportation infrastructure asset management will be
particularly of interest to academics researchers and practitioners involved
in sustainable development and maintenance of transportation infrastructure
assets

Infrastructure Asset Management Standard Requirements

2023-01-30

definitions concepts and scope of engineering asset management the first

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~~volume in this new review series seeks to minimise ambiguities in the subject~~
matter the ongoing effort to develop guidelines is shaping the future towards
the creation of a body of knowledge for the management of engineered physical
assets increasingly industry practitioners are looking for strategies and
tactics that can be applied to enhance the value creating capacities of new
and installed asset systems the new knowledge based economy paradigm provides
imperatives to combine various disciplines knowledge areas and skills for
effective engineering asset management this volume comprises selected papers
from the 1st 2nd and 3rd world congresses on engineering asset management
which were convened under the auspices of iseam in collaboration with a
number of organisations including cieam australia asset management council
australia bindt uk and chinese academy of sciences beijing university of
chemical technology china definitions concepts and scope of engineering asset
management will be of interest to researchers in engineering innovation and
technology management as well as to managers planners and policy makers in
both industry and government

Asset Management of Physical Infrastructure: Managerial Frameworks, Policy, and Practice

2006

this report contains 25 papers describing current approaches to asset
management and highlighting the importance of and best practices in
infrastructure reporting

International Infrastructure Management Manual

2010-04-29

invaluable information regarding one of the biggest worldwide growth areas in
investing infrastructure assets infrastructure investing is about to explode
on the worldwide scene the fact is that real money will need to be spent on
real projects which will present real opportunities for stable long term
returns but infrastructure assets have unique characteristics and the
investments and funds that will likely rise up must be suitably structured to
serve investor needs author rajeev sawant has been analyzing infrastructure
investments funds and project financing programs for nearly five years and
with this book he presents information that will be invaluable to lenders
pension funds insurance companies investment funds rating agencies and even
governments presents comprehensive data analysis on infrastructure cases
worldwide analyzes the opportunities as well as the pitfalls of
infrastructure investing focuses on the needs of pensions insurance companies
and endowments interested in infrastructure investing for the next decade
worldwide economic growth and increased employment as well as investment
returns will come from infrastructure projects this book will help you
understand today s dynamic infrastructure asset class and quickly get you up
to speed on the unique risks and rewards associated with it

The Handbook of Infrastructure Investing

2014-04-28

it is critical to improve the asset management system implementation as well as economics and industrial decision making to ensure that a business may move smoothly internally maintenance management should be aligned to the activities of maintenance in accordance with key business strategies which must be designed under the comprehensive approach of an asset management process after transforming the priorities of the business into priorities of maintenance maintenance managers will use their medium term strategies to tackle potential weaknesses in the maintenance of the equipment in accordance with these objectives cases on optimizing the asset management process explains and summarizes the processes and the reference frame necessary for the implementation of the maintenance management model mmm this book acts as an overview of the current state of the art in asset management providing innovative tools and practices from the fourth industrial revolution presenting topics like criticality analysis physical asset maintenance and unified modelling language this text is essential for industrial and manufacturing engineers plant supervisors academicians researchers advanced level students technology developers and managers who make decisions in this field

Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management

2010-11-02

whole life value based decision making in asset management is a comprehensive guide to improving the effectiveness of infrastructure asset management by determining the level of expenditure on infrastructure assets in order to maximise life cycle value

Definitions, Concepts and Scope of Engineering Asset Management

2019

this book offers a broad overview of asset management processes for 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 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 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 issues relating

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~~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 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 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

PRINCIPLES OF HIGHWAY INFRASTRUCTURE ASSET MANAGEMENT.

2008

this document contains guidance on a common framework for the discussion
development and implementation of highway infrastructure asset valuation by
local highway authorities in the uk in line with financial reporting and
asset management requirements specific guidance is given for roads segregated
footpaths and cycle routes and the document covers all fixed assets that form
an essential part of the highway network including earthworks and drainage
pavements and verges fencing lighting street furniture traffic management and
communication assets it sets out a step by step procedure covering asset
clarification data requirements calculation of gross replacement cost
calculation of depreciation and impairment reporting and monitoring of asset
value and examples are given in the appendices to illustrate methodology
application

Infrastructure Reporting and Asset Management

2010-03-15

faced with the challenges of aging infrastructure the lack of funding and the
desire to maintain affordable rates while meeting the customers needs utility
managers are looking for more effective ways to make decisions about capital
improvement and infrastructure maintenance implementing asset management a
practical guide provides utility professionals a step by step guide to
continued improvement in the management of their infrastructure assets the
concepts and processes presented are applicable to utilities of all sizes
depending on the availability of resources utilities can address their
infrastructure assets at a broad system wide level by grouping assets or
drill down to individual assets components and elements

Infrastructure Investing

2021-10-15

whole life value based decision making in asset management is a comprehensive
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c mazidi naimi arm series volume 2 (Read Only)
~~determining the level of expenditure on infrastructure assets in order to~~
maximise lifecycle value

Cases on Optimizing the Asset Management Process

2016-06-22

aimed at utilities in developing countries sams simplified asset management systems detailed an effective framework for anyone seeking to develop a low cost asset management system for their physical assets based on worked examples it focused on the procedures necessary for the capital maintenance of infrastructure assets this second publication seeks to extend that work into new areas and goes on to show how the basic principles can be applied to functions other than infrastructure in contrast to other more formal publications on asset management it concentrates on the practical aspects using worked examples to guide you through the process of producing a successful asset management system

Whole-Life Value-Based Decision-Making in Asset Management

2022-02-16

in the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever increasing competitiveness to overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle especially the design phase and operation and maintenance phase have seen a rise in tools and methods smarter design can lead to improved operation likewise improved operation and maintenance leads to lower replacement costs and may provide the basis for better design this book brings together and coherently presents the current state of the art in asset management research and practice in europe from a life cycle perspective each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle thus treating this important subject from a unique perspective

Asset Management for Infrastructure Systems

1992

this report examines the requirements of asset management systems the integration of existing component systems into a comprehensive approach to asset management the incorporation of a business like approach performance monitoring and the implementation of such systems

Physical Infrastructure

2000

International Infrastructure Management Manual

2005-07-06

Guidance Document for Highway Infrastructure Asset Valuation

2002-05

Infrastructure Asset Management

2023-05-28

Implementing Asset Management: a Practical Guide

2007

Implementing Asset Management

2022

GEOGRAPHIC INFORMATION SYSTEMS FOR INFRASTRUCTURE ASSET MANAGEMENT.

2016

Whole-life Value-based Decision-making in Asset Management

1996

New Zealand Infrastructure Asset Management Manual

2021-11-29

Principles of Asset Management

2012-01-13

Asset Management

2001

Asset Management for the Roads Sector

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