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This book provides a reference to analysis techniques of common cooling water system problems and a historical perspective on solutions to chronic cooling water system problems, such as corrosion and biofouling. It covers best design practices for cooling water systems that are required to support the operation of all electric power plants. Plant engineers will gain better understanding of

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the practical issues associated with their cooling water systems and new designs or modifications of their systems should consider the actual challenges to the systems. The book is intended for graduate students and practicing engineers working in both nuclear and fossil power plants and industrial facilities that use large amounts of cooling water.

Now there is a comprehensive reference to provide tools on implementing an energy audit for any type of facility. Containing forms, checklists and handy working aids, this book is for anyone implementing an energy audit. Accounting procedures, rate of return, analysis and software programs are included to provide evaluation

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tools for audit recommendations. Technologies for electrical, mechanical and building systems are covered in detail.

Plant engineers are responsible for a wide range of industrial activities, and may work in any industry. This means that breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics. The Plant Engineering Handbook offers comprehensive coverage of an enormous range of subjects which are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance. This handbook is

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packed with indispensable information, from defining just what a Plant Engineer actually does, through selection of a suitable site for a factory and provision of basic facilities (including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes) to issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. One of the major features of this volume is its comprehensive treatment of the maintenance management function; in addition to chapters which outline the operation of the various plant equipment there is specialist advice on how to get the

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most out of that equipment and its operators. This will enable the reader to reap the rewards of more efficient operations, more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes. The Editor, Keith Mobley and the team of expert contributors, have practiced at the highest levels in leading corporations across the USA, Europe and the rest of the world.

Produced in association with Plant Engineering magazine, this book will be a source of information for plant engineers in any industry worldwide. * A Flagship reference work for the Plant Engineering series *

Provides comprehensive coverage on an enormous

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range of subjects vital to plant and industrial engineer *
Includes an international perspective including dual units and regulations

A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers

Plant Equipment & Maintenance Engineering Handbook International Version

Small Plant Management

The Development of the Management Guide as an Organization and Administrative Aid in the Standard Oil Company of California

A Management Guide to Health and Safety at Work

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The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real-world reference to design, manage, and implement safe and effective plants and piping systems for today's operations. This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe, economical, operable and maintainable process facility. Easy to understand for the novice, this guide includes critical standards, newer designs, practical checklists and rules of thumb. Due to a lack of structured training in academic and technical

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institutions, engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry. Starting with basic terms, codes and basis for selection, the book focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports, then goes on to cover piping stress analysis and the daily needed calculations to use on the job. Delivers a practical guide to pipe supports, structures and hangers available in one go-to source Includes information on

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stress analysis basics, quick checks, pipe sizing and pressure drop Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

Practical Power Plant Engineering offers engineers, new to the profession, a guide to the methods of practical design, equipment selection and operation of power and heavy industrial plants as practiced by experienced engineers. The author—a noted expert on

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the topic—draws on decades of practical experience working in a number of industries with ever-changing technologies. This comprehensive book, written in 26 chapters, covers the electrical activities from plant design, development to commissioning. It is filled with descriptive examples, brief equipment data sheets, relay protection, engineering calculations, illustrations, and common-sense engineering approaches. The book explores the most relevant topics and reviews the industry standards and established engineering practices. For example, the author leads the reader through the application of MV switchgear, MV controllers, MCCs and distribution

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lines in building plant power distribution systems, including calculations of interrupting duty for breakers and contactors. The text also contains useful information on the various types of concentrated and photovoltaic solar plants as well as wind farms with DFIG turbines. This important book:

- Explains why and how to select the proper ratings for electrical equipment for specific applications
- Includes information on the critical requirements for designing power systems to meet the performance requirements
- Presents tests of the electrical equipment that prove it is built to the required standards and will meet plant-specific operating requirements

Written for both

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professional engineers early in their career and experienced engineers, Practical Power Plant Engineering is a must-have resource that offers the information needed to apply the concepts of power plant engineering in the real world.

The job market continues to change. Highly skilled and specialized workers are in demand. Traditional education cannot meet all the needs to create specialty skill workers. Certification provides up-to-date training and development while promoting individual or professional skills and knowledge in a focused manner. Certification as a way of continuing professional education can also be more cost effective.

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Plant Management Guide to Accounting and Finance

The Engineer's Guide to Plant Layout and Piping

Design for the Oil and Gas Industries

Plant Engineer's Handbook

Plant Engineers and Managers Guide to Energy

Conservation

Project and Construction Management Guidelines

A Systems Approach

The Chemical and Process Plant Commissioning

Handbook, winner of the 2012 Basil Brennan Medal from

the Institution of Chemical Engineers, is a guide to

converting a newly constructed plant or equipment into a

fully integrated and operational process unit. Good

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commissioning is based on a disciplined, systematic and proven methodology and approach that achieve results in the safest, most efficient, cost effective and timely manner. The book is supported by detailed, proven and effective commission templates, plus extensive commissioning scenarios that enable the reader to learn the context of good commissioning practice from an experienced commissioning manager. It focuses on the critical safety assessment and inspection regimes necessary to ensure that new plants are compliant with OSHA and environmental requirements. Martin Killcross has brought together the theory of textbooks and technical information obtained from sales literature, in order to provide engineers with

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what they need to know before initiating talks with vendors regarding equipment selection. Unique information from a respected, global commissioning manager: delivers the know-how to succeed for anyone commissioning new plant or equipment Comes with online commissioning process templates that make this title a working tool kit as well as a key reference Extensive examples of successful commissioning processes with step-by-step guidance enable readers to understand the function and performance of the wide range of tasks required in the commissioning process

Based on over 40 years of experience in the field, Ramesh Singh goes beyond corrosion control, providing techniques

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for addressing present and future integrity issues. Pipeline Integrity Handbook provides pipeline engineers with the tools to evaluate and inspect pipelines, safeguard the life cycle of their pipeline asset and ensure that they are optimizing delivery and capability. Presented in easy-to-use, step-by-step order, Pipeline Integrity Handbook is a quick reference for day-to-day use in identifying key pipeline degradation mechanisms and threats to pipeline integrity. The book begins with an overview of pipeline risk management and engineering assessment, including data collection and regulatory approaches to liquid pipeline risk management. Other critical integrity issues include: Pipeline defects and corrective actions

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Introduction to various essential pipeline material such as line pipes and valves Coverage on corrosion and corrosion protection Identifies the key pipeline degradation mechanisms and threats to pipeline integrity Appreciates various corrosion monitoring and control tools and techniques Understands the principles of risk assessment and be able to conduct a simple risk assessment Develops simple Pipeline Integrity Management plans Selects and apply appropriate inspection and assessment criteria for pipeline defects Recommends appropriate repair methods for pipeline defects

Thermal Engineering of Nuclear Power Stations: Balance-of-Plant Systems serves as a ready reference to better

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analyze common engineering challenges in the areas of turbine cycle analysis, thermodynamics, and heat transfer. The scope of the book is broad and comprehensive, encompassing the mechanical aspects of the entire nuclear station balance of plant from the source of the motive steam to the discharge and/or utilization of waste heat and beyond. Written for engineers in the fields of nuclear plant and thermal engineering, the book examines the daily, practical problems encountered by mechanical design, system, and maintenance engineers. It provides clear examples and solutions drawn from numerous case studies in actual, operating nuclear stations.

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Conservaton

The Guide to National Professional Certification Programs

Thermal Engineering of Nuclear Power Stations

Energy Information Guide: General and alternative energy sources

The Role of the Energy Manager

Physics for Technicians

Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance. Regularly exposed to hazardous service conditions and damage mechanisms,

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these critical plant assets can result in major failures if not effectively monitored and assessed—potentially causing serious injuries and significant business losses. When used proactively, Root Cause Failure Analysis (RCFA) helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur. RCFA is equally important after a failure happens: it determines the impact of a failure, helps control the resultant damage, and identifies the steps for preventing future problems. Root Cause Failure Analysis: A Guide to Improve Plant Reliability offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to

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perform industrial RCFA investigations. This comprehensive resource describes the methodology of RCFA and provides multiple techniques and industry practices for identifying, predicting, and evaluating equipment failures. Divided into two parts, the text first introduces Root Cause Analysis, explains the failure analysis process, and discusses the management of both human and latent error. The second part focuses on failure analysis of various components such as bolted joints, mechanical seals, steam traps, gearboxes, bearings, couplings, pumps, and compressors. This authoritative volume: Illustrates how failures are associated with part integrity, a complete system, or the

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execution of an engineering process Describes how proper design, operation, and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5-Why RCFA, fault tree analysis, Pareto charts, and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application, Root Cause Failure Analysis: A Guide to Improve Plant Reliability is an important reference and guide for industrial professionals, including process plant engineers, planning managers, operation and

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maintenance engineers, process designers, chemical engineers, and instrument engineers. It is also a valuable text for researchers, instructors, and students in relevant areas of engineering and science.

An Applied Guide to Process and Plant Design, 2nd edition, is a guide to process plant design for both students and professional engineers. The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design; subjects that are usually learned on the job rather than in education. You will learn how to produce smarter plant design through the use of computer tools, including Excel and AutoCAD, “What If

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Analysis, statistical tools, and Visual Basic for more complex problems. The book also includes a wealth of selection tables, covering the key aspects of professional plant design which engineering students and early-career engineers tend to find most challenging.

Professor Moran draws on over 20 years' experience in process design to create an essential foundational book ideal for those who are new to process design, compliant with both professional practice and the IChemE degree accreditation guidelines. Includes new and expanded content, including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant

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layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables, covering aspects of professional plant design which early-career designers find most challenging

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amounts of priceless information that will help you reduce or eliminate downtime and keep your facility humming. This comprehensive, portable toolkit packs everything you need to:

- * Continually assess the condition status of every aspect of a building: all of its systems and equipment, components and subcomponents
- * Identify deficiencies before they become major problems
- * Get better performance from every system

Engineering of Power Plant and Industrial Cooling Water Systems

Practical Publications for Energy Management, Edition III : a Reference Guide to Handbooks, Curricula, and

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Audiovisual Materials

A Guide for Early Career Engineers

Plant Engineer's Reference Book

The Resource File

BIM Handbook

"The book provides the whole horizon of process engineering and plant design from concept phase through the execution to commissioning of the plant in the real practice. Providing a complete industrial perspective. The book covers the pertinent guidelines and standards and how engineering documents are generated using these standards with topics as Hazardous Area

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Classification, Relief System Design, Revamp Engineering, Interaction with Other Disciplines, and Pre-commissioning and Commissioning. The concepts are supported by illustrated practical examples. It also deals with decision making processes on strategic level, management tasks and leading functions beside the technical know-how"--

Appropriate for plant engineers and maintenance workers, boiler plant operators, and students attending trade schools and training programs, this all-inclusive and practical source discusses the principles, problems, and safety aspects of

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today's industrial boilers in an easy to understand manner. It offers operating hints, instructions, and valuable information gathered from reliable technical sources.

** Useful to engineers in any industry * Extensive references provided throughout * Comprehensive range of topics covered * Written with practical situations in mind A plant engineer is responsible for a wide range of industrial activities, and may work in any industry. The breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to certain subjects or*

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cursory in their treatment of topics. The Plant Engineer's Reference Book is the first volume to offer complete coverage of subjects of interest to the plant engineer. This reference work provides a primary source of information for the plant engineer. Subjects include selection of a suitable site for a factory and provision of basic facilities (including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes). Detailed chapters deal with basic issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations,

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insurance matters and financial concerns. The authors chosen to contribute to the book are experts in their various fields. The Editor has experience of a wide range of operations in the UK, other European countries, the USA, and elsewhere in the world. Produced with the backing of the Institution of Plant Engineers, this work is the primary source of information for plant engineers in any industry worldwide.

Optimizing Facility Performance

Practical Power Plant Engineering

Building Owner's and Manager's Guide

Handbook of Energy Audits

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*An Applied Guide to Process and Plant Design
Guide to Energy Management*

The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real-world reference to design, manage, and implement safe and effective plants and piping systems for today's operations. This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe, economical, operable and maintainable process facility. Easy to understand for the novice, this guide

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includes critical standards, newer designs, practical checklists and rules of thumb. Due to a lack of structured training in academic and technical institutions, engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry. Starting with basic terms, codes and basis for selection, the book focuses on each piece of equipment such as pumps, towers, underground piping, pipe sizes and supports, then goes on to cover piping stress

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analysis and the daily needed calculations to use on the job. Delivers a practical guide to pipe supports, structures and hangers available in one go-to source Includes information on stress analysis basics, quick checks, pipe sizing and pressure drop Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

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Topics include distributed generation, energy auditing, rate structures, economic evaluation techniques, lighting efficiency improvement, HVAC optimization, combustion and use of industrial wastes, steam generation and distribution system performance, control systems and computers, energy systems maintenance, renewable energy, and industrial water management."--BOOK JACKET.

An Updated Guide to Establishing Cutting-Edge Operations and Maintenance Procedures for Today's Complex Facilities An essential on-the-job resource, Facility Manager's Maintenance Handbook presents

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step-by-step coverage of the planning, design, and execution of operations and maintenance procedures for structures, equipment, and systems in any type of facility. This career-building reference provides the tools needed to streamline facility management processes...reduce operational costs...and ensure the effective utilization, maintenance, repair, and renovation of existing physical assets. Now with 40% new information, this Second Edition includes brand-new chapters on emergency response procedures...maintenance operations benchmarking...capital and operational budgets

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management...boiler and steam plant operations... and other vital topics. The only book of its kind to cover both operations and maintenance, the updated Facility Manager's Maintenance Handbook features: Updated information on mechanical equipment and systems maintenance The latest fire protection procedures A comprehensive account of building codes Guidance on hazardous materials handling Excellent preparation for the IFMA Certified Facility Manager (CFM) qualification Inside This State-of-the-Art Facility Management Resource • Part 1: Organizing for Maintenance Operations • Part 2: Facility Operations

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Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its

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implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include:

Information on the ways in which professionals should use BIM to gain maximum value

New topics such as collaborative working, national and major construction clients, BIM standards and guides

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A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions

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Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Annotation. Focusing on the operational side of facilities management (as opposed to start up concerns) and addressed to plant managers, this

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work explores the proper conduct of inspections and evaluations of facilities in order to pinpoint problems in the areas maintenance, safety, energy efficiency, and environmental compliance.

Completely revised and updated, this tenth edition of a bestseller covers both management and technical strategies for slashing energy costs by as much as 40 percent in industrial facilities. It discusses cogeneration, gas distributed generation technologies, steam system optimization, geothermal heat pumps, energy outsourcing, electricity purchasing strategies, and power quality

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case studies. It also provides guidelines for life cycle costing, electrical system optimization, lighting and HVAC system efficiency improvement, mechanical and process system performance, building energy loss reduction, financing energy projects, and more.

Root Cause Failure Analysis

Facility Manager's Maintenance Handbook

A Guide to Improve Plant Reliability

The Management Guide

A Practical Guide to Plant System and Equipment

Installation and Commissioning

Risk Management and Evaluation

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Rules of Thumb for Maintenance and Reliability

Engineers will give the engineer the "have to have" information. It will help instill knowledge on a daily basis, to do his or her job and to maintain and assure reliable equipment to help reduce costs. This book will be an easy reference for engineers and managers needing immediate solutions to everyday problems. Most civil, mechanical, and electrical engineers will face issues relating to maintenance and reliability, at some point in their jobs. This will become their "go to" book. Not an oversized handbook or a theoretical treatise, but a handy collection of graphs, charts, calculations, tables, curves, and explanations, basic "rules of thumb" that any

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engineer working with equipment will need for basic maintenance and reliability of that equipment. □ Access to quick information which will help in day to day and long term engineering solutions in reliability and maintenance □ Listing of short articles to help assist engineers in resolving problems they face □ Written by two of the top experts in the country

The Best On-the-Job Guide to Industrial Plant Equipment and Systems This practical, one-of-a-kind field manual explains how equipment in industrial facilities operates and covers all aspects of commissioning relevant to engineers and project managers. Plant Equipment and Maintenance Engineering Handbook contains a data log

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of all major industrial and power plant components, describes how they function, and includes rules of thumb for operation. Hundreds of handy reference materials, such as calculations and tables, plus a comprehensive listing of electrical parts with common supplier nomenclature are also included in this time-saving resource. FEATURES DETAILED COVERAGE OF:
Compressors * Air conditioning * Ash handling * Bearings and lubrication * Boilers * Chemical cleaning and Flushing * Condensers and circulating water systems * Controls * Conveyor systems * Cooling towers * Corrosion Deaerators * Diesel and gas turbines * Electrical * Fans * Fire protection * Fuels and combustion

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sanitation; Energy conservation; Lubricants and lubrication systems.

Standard Handbook of Plant Engineering

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A Management Guide for Engineers who Wish to

Perform Creatively in Industry

Occupational Outlook Handbook