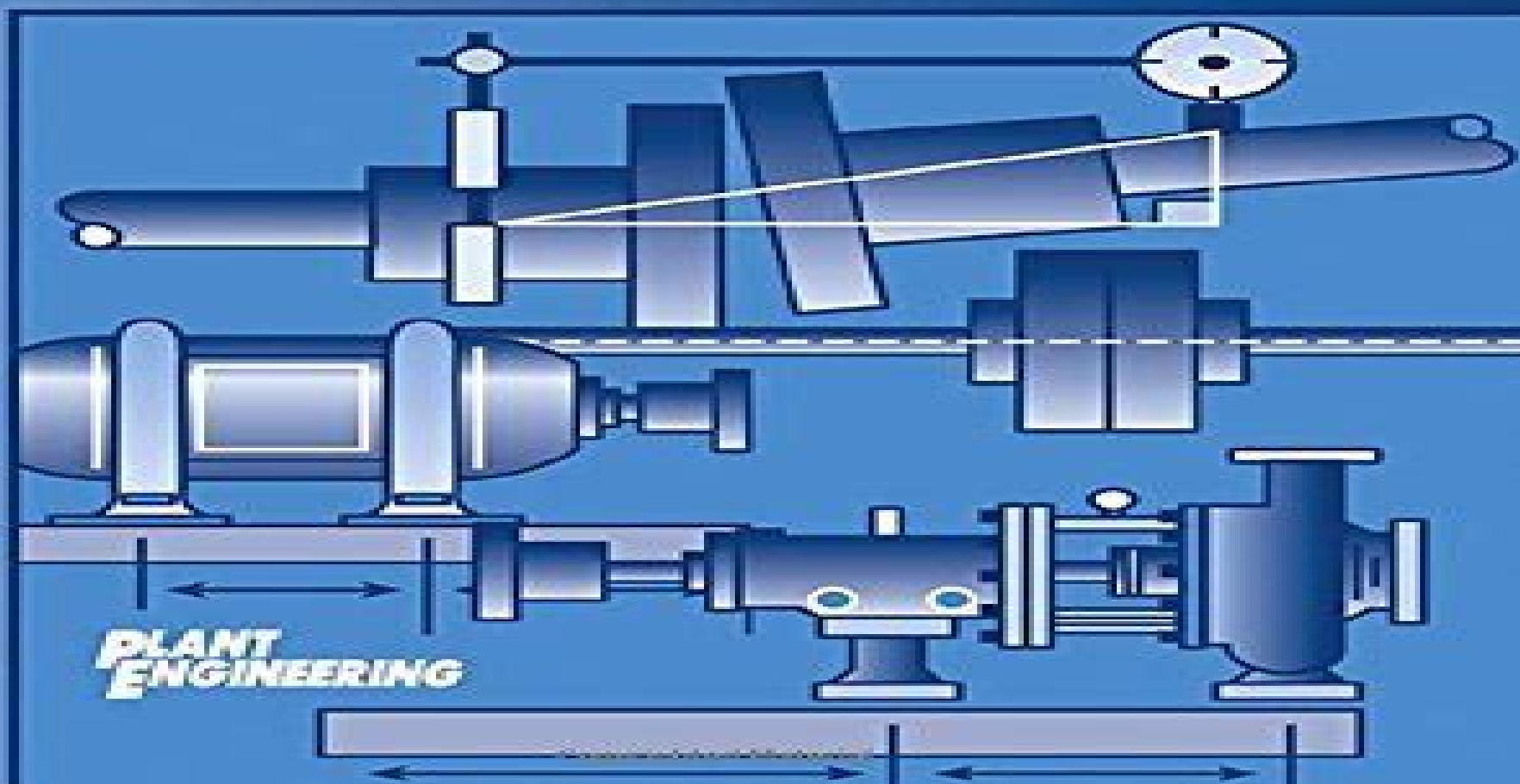




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MAINTENANCE FUNDAMENTALS

R. KEITH MOBLEY



Maintenance Fundamentals Plant Engineering Series

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Maintenance Fundamentals R. Keith Mobley, 1999 This text aims to provide the information needed by managers who operate and maintain industrial plants Divided into modules it provides practical knowledge to select install maintain and troubleshoot plant machinery equipment and systems and looks at bearings gears drives and couplings *Maintenance Fundamentals* R. Keith Mobley, 2011-03-15 No matter which industry a company is a part of its profitability like its products is driven by the reliability and performance of its plant s The fundamentals for maintenance found in this volume are applicable to a multitude of industries power process materials manufacturing transportation communication and many others This book shows the engineer how to select install maintain and troubleshoot critical plant machinery equipment and systems NEW to this edition New material includes a chapter on inspections providing practical guidelines for effective visual inspections the key to effective preventive maintenance Also included in the revision will be multiple chapters on equipment such as pumps compressors and fans Provides practical knowledge about plant machinery equipment and systems for the new hire or the veteran engineer Covers a wide array of topics from shaft alignment and bearings to rotor balancing and flexible intermediate drives Delivers must have information to the engineer which he she will use on a daily basis in day to day activities that will affect the reliability and profitability of the plant Plant Engineer's Handbook R. Keith Mobley, 2001-05-14 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 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 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 range of subjects vital to

plant and industrial engineer Includes an international perspective including dual units and regulations **Industrial Machinery Repair** Ricky Smith,R. Keith Mobley,2003-08-18 Industrial Machinery Repair provides a practical reference for practicing plant engineers maintenance supervisors physical plant supervisors and mechanical maintenance technicians It focuses on the skills needed to select install and maintain electro mechanical equipment in a typical industrial plant or facility The authors focuses on Best Maintenance Repair Practices necessary for maintenance personnel to keep equipment operating at peak reliability and companies functioning more profitably through reduced maintenance costs and increased productivity and capacity A number of surveys conducted in industries throughout the United States have found that 70% of equipment failures are self induced If the principles and techniques in this book are followed it will result in a serious reduction in self induced failures In the pocketbook format this reference material can be directly used on the plant floor to aid in effectively performing day to day duties Data is presented in a concise easily understandable format to facilitate use in the adverse conditions associated with the plant floor Each subject is reduced to it simplest terms so that it will be suitable for the broadest range of users Since this book is not specific to any one type of industrial plant and is useful in any type of facility The new standard reference book for industrial and mechanical trades Accessible pocketbook format facilitates on the job use Suitable for all types of plant facilities *Plant Equipment & Maintenance Engineering Handbook* Duncan Richardson,2013-07-22 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 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 Piping Pumps Turbines Vibration Water treatment Maintenance Fundamentals, 2e (HB) Mobley,2005-11-01 **Maintenance Engineering Handbook** Keith Mobley,Lindley Higgins,Darrin Wikoff,2008-03-21 Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind Maintenance Engineering Handbook has long been a staple for engineers managers and technicians seeking current advice on everything from tools and techniques to planning and scheduling This brand new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment such dated subjects as sanitation and housekeeping have been removed Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years Whether you re new to the profession or a practiced veteran this updated edition is an absolute necessity New and updated sections

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Fluid Power Dynamics R. Keith Mobley, 1999-12-20 Fluid Power Dynamics is a 12 chapter book in two sections covering the basics of fluid power through hydraulic system components and troubleshooting The second section covers pneumatics from basics through to troubleshooting This is the latest book in a new series published by Butterworth Heinemann in association with PLANT ENGINEERING magazine PLANT ENGINEERING fills a unique information need for the men and women who operate and maintain industrial plants It bridges the information gap between engineering education and practical application As technology advances at increasingly faster rates this information service is becoming more and more important Since its first issue in 1947 PLANT ENGINEERING has stood as the leading problem solving information source for America's industrial plant engineers and this book series will effectively contribute to that resource and reputation

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Electrical Equipment Handbook : Troubleshooting and Maintenance

Philip Kiameh, 2003-04-11 Maximize your company's energy output while ensuring the reliability and longevity of your industrial electrical equipment Everything you need for selection applications operations diagnostic testing troubleshooting and maintenance for all capital equipment placed firmly in your grasp Keeping your equipment running efficiently and smoothly could make the difference between profit and loss Electrical Equipment Handbook Troubleshooting and Maintenance provides you with the state of the art information for achieving the highest performance from your transformers motors speed drives generator rectifiers and inverters With this book in hand you'll understand various diagnostic testing methods and inspection techniques as well as advance fault detection techniques critical components and common failure modes This handbook will answer all your questions about industrial electrical equipment In Electrical Equipment Handbook Troubleshooting and Maintenance you will Learn about the various types of transformers motors variable speed drives

generators rectifiers inverters and uninterrupted power systems Understand diagnostic testing and inspection advanced fault detection techniques critical components and common failure modes Study selection criteria commissioning requirements predictive and preventive maintenance reliability testing and cost discover the maintenance required to minimize their operating cost and maximize their efficiency reliability and longevity

Total Productive Maintenance Terry Wireman, 2004 The financial approach to Total Production Maintenance

Reliability Centered Maintenance (RCM) Neil B. Bloom, 2005-12-22 A properly implemented and managed RCM program can save millions in unscheduled maintenance and breakdowns However many have found the process daunting Written by an expert with over 30 years of experience this book introduces innovative approaches to simplify the RCM process such as single vs multiple failure analysis hidden failures analysis potentially critical components analysis run to failure and the difference between redundant standby and backup functions Included are real life examples of flawed preventive maintenance programs and how they led to disasters that could have easily been avoided Also illustrated in detail with real life examples is the step by step process for developing implementing and maintaining a premier classical RCM program Senior management middle management supervisors and craftsmen technicians responsible for plant safety and reliability will find this book to be invaluable as a means for establishing a first class preventive maintenance program

Green Roof Construction and Maintenance (GreenSource Books) Kelly Luckett, 2009-08-03 A Complete Guide to Building and Maintaining Green Roofs Written by an industry expert in green roof design and installation this GreenSource book presents all of the information you need to skillfully design construct and maintain green roofs You will find a wealth of practical details gathered through real world implementations and independent research Green Roof Construction and Maintenance explains how to design a green roof plan for irrigation and drainage select and place soil and plants and maintain the entire setup The book also discusses return on investment LEED design specifications and the myriad short and long term environmental benefits of green roofs Filled with step by step illustrations and full color photographs this is a valuable hands on guide to a rapidly emerging trend in the sustainability movement Green Roof Construction and Maintenance includes Key questions to ask at each stage of the green building process Tested tips and techniques for successful structural design Construction methods for new and existing buildings Information on insulation drainage detailing irrigation and plant selection Details on optimal soil formulation Illustrations featuring various stages of construction Best practices for green roof maintenance A survey of environmental benefits including evapo transpiration storm water management habitat restoration and improvement of air quality Tips on the LEED design and certification process Considerations for assessing return on investment Color photographs of successfully installed green roofs Useful checklists tables and charts

The Maintenance Management Framework Adolfo Crespo Márquez, 2007-06-10 The Maintenance Management Framework describes and reviews the concept process and framework of modern maintenance management of complex systems concentrating specifically on modern modelling tools deterministic

and empirical for maintenance planning and scheduling It presents a new perspective of maintenance management by focusing on the course of maintenance actions presenting a structure that ensures proper support for current maintenance managers clarifying the functionality that is required from information technology when applied to maintenance and the functions of modern maintenance engineering and creating a set of practical models for maintenance management planning and scheduling The discussion of all of these issues is supported through the use of case studies The Maintenance Management Framework will be beneficial for engineers and professionals involved in maintenance management maintenance engineering operations management quality etc It will also be of interest to graduate students and researchers in this field

Nuclear Corrosion Science and Engineering Damien Feron, 2012-02-21 Corrosion of nuclear materials i e the interaction between these materials and their environments is a major issue for plant safety as well as for operation and economic competitiveness Understanding these corrosion mechanisms the systems and materials they affect and the methods to accurately measure their incidence is of critical importance to the nuclear industry Combining assessment techniques and analytical models into this understanding allows operators to predict the service life of corrosion affected nuclear plant materials and to apply the most appropriate maintenance and mitigation options to ensure safe long term operation This book critically reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities Initial sections introduce the complex field of nuclear corrosion science with detailed chapters on the different types of both aqueous and non aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them This is complemented by reviews of monitoring and control methodologies as well as modelling and lifetime prediction approaches Given that corrosion is an applied science the final sections review corrosion issues across the range of current and next generation nuclear reactors and across such nuclear applications as fuel reprocessing facilities radioactive waste storage and geological disposal systems With its distinguished editor and international team of expert contributors Nuclear corrosion science and engineering is an invaluable reference for nuclear metallurgists materials scientists and engineers as well as nuclear facility operators regulators and consultants and researchers and academics in this field Comprehensively reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities Chapters assess different types of both aqueous and non aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them Considers monitoring and control methodologies as well as modelling and lifetime prediction approaches

Maintenance Planning and Scheduling Handbook, 4th Edition () (Doc) D. D. D. Palmer, 2019-09-13 The industry standard resource for maintenance planning and scheduling thoroughly revised for the latest advances Written by a Certified Maintenance and Reliability Professional CMRP with more than three decades of experience this resource provides proven planning and scheduling strategies that will take any maintenance organization to the next level of performance The book resolves common industry frustration with planning and reduces the complexity of scheduling in addition to dealing with reactive maintenance You will

find coverage of estimating labor hours setting the level of plan detail creating practical weekly and daily schedules kitting parts and more all designed to increase your workforce without hiring Much of the text applies the timeless management principles of Dr W Edwards Deming and Dr Peter F Drucker You will learn how you can do more proactive work when your hands are full of reactive work Maintenance Planning and Scheduling Handbook Fourth Edition features more new case studies showing real world successes a new chapter on getting better storeroom support major revisions that describe the best KPIs for planning major additions to the issue of selling planning to gain support revisions to make work order codes more useful a new appendix on numerically auditing planning success and a new appendix devoted entirely to selecting a great maintenance planner Maintenance Planning and Scheduling Handbook Fourth Edition covers The business case for the benefit of planning Planning principles Scheduling principles Handling reactive maintenance Planning a work order Creating a weekly schedule Daily scheduling and supervision Parts and planners The computer CMMS in maintenance How planning works with PM PdM and projects Controlling planning the best KPIs KPIs for planning and overall maintenance Shutdown turnaround overhaul and outage management Selling organizing analyzing and auditing planning

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The Naval Aviation Maintenance Program (NAMP).: Maintenance data systems United States. Office of the Chief of Naval Operations,1990

Failure Analysis Jose Luis Otegui,2016-08-27 This book addresses the failures of structural elements i e those components whose primary mission is to withstand mechanical loads The book is intended as a self contained source for those with different technical grades engineers and scientists but also technicians in the field can benefit from its reading

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