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## Maintenance Engineering Handbook by E. Keith Mobley

Engineering maintenance : a modern approach / by B.S. Dhillon. p. cm. Includes bibliographical references and index. ISBN 1-58716-142-7 1. Plant maintenance—Management. I. Title. TS192 .D47 2002

## Engineering Maintenance: A Modern Approach

The textbook itself appears to be full of very good information to determine how to set up a maintenance system within a company. The text uses He and Man instead of the more PC gender neutral terms often found in literature today. The reason why I give 2 stars instead of 4 or 5 is the text book is falling apart.

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The Most Complete, Current Guide to Every Aspect of Maintenance Engineering Extensively updated to cover the latest technologies and methods, Maintenance Engineering Handbook, Eighth Edition offers in-depth details on identifying and repairing faulty equipment. This definitive resource focuses on proven best practices for maintenance, repair, and overhaul (MRO), inventory management, root-cause analysis, and performance management. This thoroughly revised edition contains new chapters on: Reliability-based maintenance Preventive maintenance Sustaining maintenance Ultrasonics Operating dynamics Simplified



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failure modes and effects analysis Criticality analysis Process and value-stream mapping  
Featuring contributions from noted experts in the field, this authoritative reference will help you to successfully reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures. Comprehensive coverage of: Organization and management of the maintenance function \* Best practices for maintenance and predictive maintenance \* Engineering and analysis tools \* Maintenance of mechanical, electrical, and facilities equipment

To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of

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maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

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

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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

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 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

Generations of engineers and managers have turned to this popular handbook for expert

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guidance on maintenance for all types of facilities, including industrial plants, power generating stations, refineries, schools, hospitals, and office buildings. Now revised and updated with 40% new material, the Fifth Edition offers you detailed information on every aspect of maintenance engineering - from new technical advances to maintaining the latest machinery. You'll find practical advice from 55 specialists on the organization and management of the maintenance function ... establishing costs and controls ... maintenance of plant facilities ... sanitation and housekeeping ... maintenance of mechanical and electrical equipment ... and maintenance of service equipment. The Fifth Edition also discusses new ways of using computers to manage maintenance procedures for machinery, physical plant, and fixed support service - and presents all-new material on lubrication, instruments and vibration, and chemical corrosion control and cleaning. Whether you're a plant engineer, facilities manager, or maintenance engineer, this updated handbook will give you the on-the-job information and skills needed to solve virtually any maintenance problem!

This utterly comprehensive work is thought to be the first to integrate the literature on the physics of the failure of complex systems such as hospitals, banks and transport networks. It has chapters on particular aspects of maintenance written by internationally-renowned researchers and practitioners. This book will interest maintenance engineers and managers in industry as well as researchers and graduate students in maintenance, industrial engineering and applied mathematics.

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the

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design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

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