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this book explains the tools and processes that allow changes in the way maintenance works it allows you to learn industrial maintenance and

reliability concepts and how to improve the maintenance performance so you can move from reactive maintenance to proactive maintenance this book includes real cases that exemplify concepts of maintenance and reliability it presents a diagram with practical evidence and explains how to move from reactive to proactive maintenance it s written in a storytelling style that keeps the attention of the reader and provides tools for young and experienced professionals this book is useful for anyone working in the maintenance and reliability fields as well as plant engineers and industrial engineers and managers in general

r keith mobley

industrial maintenance and mechatronics is a comprehensive text that provides curriculum support for industrial technology maintenance itm programs the text consists of 40 chapters grouped into sections that correspond to principal industrial technology disciplines with a special focus on electrical systems and electronic controls with an exclusive endorsement from nims this learning program is designed to work hand in glove with the nims smart duties and standards for industrial technology maintenance providing students with the necessary knowledge and skills for entry level positions in industrial maintenance and helping them prepare for nims credentialing instructors and students will appreciate the convenience and value of a comprehensive text that can be used in multiple courses and programs this organized student friendly text imparts need to know information in an accessible style while providing the background theory instructors look for the authors also explain why itm students need to know it they have drawn on a deep reservoir of industry and teaching experience to bring the material to life with tech tips and other features that support hands on learning as a member of the nims technical working group that prepared the industrial technology maintenance duties and standards mr shearer gained a deep understanding of the competencies desired by nims industry partners mr ballee is a member of the nims advisory council and he has also served on mssc s national expert panel includes multichapter sections on maintenance operations basic mechanical systems fluid power electrical systems electronic control systems process control and maintenance piping allowing the text to be used in multiple courses and programs features three dedicated chapters on troubleshooting frequent tech tips and additional troubleshooting content throughout the text to prepare students for the challenges they will encounter on the job emphasizes the development of safe working practices with extensive safety coverage in the text and numerous safety

notes throughout the chapters

the lab workbook for industrial maintenance and mechatronics combines review activities and practical applications that relate to the content of the textbook chapters questions designed to reinforce the textbook content help students review their understanding of the terms concepts theories and procedures presented in each chapter hands on lab activities provide an opportunity to apply and extend knowledge gained from the textbook chapters these lab activities also help to prepare students for the hands on skills assessment required to achieve a nims industrial technology maintenance level 1 credential

this book explains the tools and processes that allow changes in the way maintenance works it allows you to learn industrial maintenance and reliability concepts and how to improve the maintenance performance so you can move from reactive maintenance to proactive maintenance this book includes real cases that exemplify concepts of maintenance and reliability it presents a diagram with practical evidence and explains how to move from reactive to proactive maintenance it s written in a storytelling style that keeps the attention of the reader and provides tools for the young professionals and the experienced this book is useful for anyone working in the maintenance and reliability fields as well as plant engineers and industrial engineers and managers in general

industrial maintenance second edition provides a strong foundation in all five major areas of industrial maintenance including general mechanical electrical welding and preventive maintenance in addition to essential information on safety tools industrial print reading and electrical theory this comprehensive text includes a detailed exploration of modern machinery and equipment to help you understand diagnose troubleshoot and maintain a wide variety of industrial machines this text has also been thoroughly updated and revised to reflect recent developments in this dynamic rapidly evolving field including current piping and fluid power symbols rigging and mechanical installations magnetism transformers motors and sensors and industrial communications with comprehensive up to date coverage and a reader friendly modular presentation industrial maintenance is the perfect resource to prepare you for success as an industrial maintenance technician important notice media content referenced within the product description or the product text may not be available in the ebook version

this book discusses the main quality management qm programs and their possible integration into systematic industrial maintenance sim unlike traditional engineering maintenance books it not only explains the theory but also provides practical examples of the integration of qm and sim programs it also includes reference sources making it useful for readers wanting to explore specific areas in more depth chapter 1 introduces various aspects of the main quality management qm programs including total quality management tqm just in time jit and lean manufacturing lean subsequently it examines the relation of quality and maintenance chapter 2 reviews the concepts of systematic industrial maintenance sim and the application of quality control qc tools chapter 3 offers an overview historical perspective and trends in industrial maintenance techniques chapters 4 5 6 7 8 and 9 focus on topics related to schedule based maintenance condition based maintenance reliability based maintenance computerized based maintenance risk based maintenance and total productive maintenance covering the theory of each of these types of sim the chapters also explain their real world application in qm and highlight their merits and weaknesses in the context of supporting qm

this exceptionally produced trainee guide features a highly illustrated design technical hints and tips from industry experts review questions and a whole lot more key content includes basic layout introduction to piping components copper and plastic piping practices introduction to ferrous metal piping practices identify install and maintain valves hydrostatic and pneumatic testing introduction to bearings low pressure steam systems high pressure steam systems and auxiliaries distillation towers and vessels heaters furnaces heat exchangers cooling towers and fin fans and introduction to tube work instructor supplements instructors product supplements may be ordered directly through oasis at oasis.pearson.com for more information contact your pearson nccer content sales specialist at nccer.pearsonconstructionbooks.com/store/sales.aspx annotated instructor's guide paperback 0 13 614393 8 computerized testing software 0 13 614781 x transparency masters 0 13 614797 6 powerpoint presentation slides 0 13 608644 6

with an emphasis on maintenance personnel versatility industrial maintenance is a comprehensive source of fundamental system operation maintenance and troubleshooting information this edition builds on industry proven content and offers expanded coverage in the areas of energy efficiency and auditing waste reduction safety standards advanced multimeter functions and procedures building automation systems

and indoor air quality real world maintenance problems and solutions are depicted throughout the textbook along with equipment operating principles maintenance management procedures and troubleshooting scenarios for common systems the workbook features typical troubleshooting and diagnostic activities encountered in the field activities reinforce knowledge of maintenance concepts and help learners develop troubleshooting skills

this broadly based volume is designed for readers with little or no previous exposure to general mechanical technology the book addresses a full range of technologies in mechanical maintenance with this easy to understand introduction readers will become familiar with technician work relative to manufacturing and service industry equipment outside of the automotive area the book addresses topics ranging from an introduction to machinery and mechanical systems hand and power tools and shop math to shop safety basic rigging bushings and bearings interpreting engineering drawings and electrical systems and measurements for individuals interested in mechanical maintenance

an exceptionally readable training resource designed in a flexible stand alone chapter format this modern book gives future industrial technicians a solid foundation in basic theory coupled with a practical hands on approach that includes exposure to real life equipment used in the industry today using a direct and straightforward style of writing that has won praise from readers it focuses on the needs of industrial mechanics technicians and engineers working with industrial mechanical and power transmission products and integrates safety and troubleshooting components within each chapter to encourage diagnostic skill building

effective maintenance the key to profitability paul d tomlingson plant maintenance represents a high percentage of operating costs in many industries and as global competition increases so does the need for reduced downtime and cost effective maintenance effective maintenance is geared toward helping managers develop measure and enhance the maintenance organization every aspect of this multi faceted topic is explored and explained with an emphasis on practical use it today advice this comprehensive results oriented resource will help you to establish what maintenance should be doing in your plant environment determine whether maintenance is organized correctly find out whether maintenance is performing effectively implement an improvement program if needed ensure continuous improvement and effective performance invaluable coverage includes team organization predictive and preventive techniques planning scheduling and

effective workcontrol this book also shows how to build train and evaluate amaintenance staff for the greatest return in responsiveness support and performance from the largest planning issues topeople management for quality assurance effective maintenance willbe a valuable aid for managers who desire continuous improvement inmaintenance operations it will be welcomed by plant engineers operations managers maintenance managers maintenance engineers maintenance superintendents and manufacturing managers

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