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Maintenance and Reliability Engineers *Srivastava, Sushil Kumar Mohamed Ben-Daya Keith Mobley Lindley R. Higgins V. VENKATARAMAN C. L. Dunlop A. K. Gupta United States. Army Materiel Command JNYANI R. MAHATO Emma Affleck MISHRA, R. C. Lindley R. Higgins Alakesh Manna Mohammed Ben-Daya B.S. Dhillon R. Keith Mobley B.S. Dhillon Keith Mobley Ricky Smith*

this book is highly useful for the students of b e b tech of punjab technological university jalandhar and aslo for the other technological universities of india as per new syllabus accordingly few sample question are given at the end of each chapter the chapter and topics covered in this book are expected to encompass the syllabus that may be needed by various colleges institutions in maintenance field it also serves as a reference book for students of all other engineering disciplines in universities colleges institutions and also vast numbers of engineer managers superviors technologists and other persons working in or associated with maintenance and upkeep of machines equipments and systems in any shop plant or industry

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 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

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 include belt drives provided by the gates corporation repair and maintenance cost estimation ventilation fans and exhaust systems 10 new chapters on maintenance of mechanical equipment inside organization and management of the maintenance function maintenance practices engineering and analysis tools maintenance of facilities and equipment maintenance of mechanical equipment maintenance of electrical equipment instrumentation and reliability tools lubrication maintenance welding chemical corrosion control and cleaning

generations of engineers and managers have turned to this popular handbook for expert 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 text is an accessible and comprehensive guide to the principles practices functions and challenges of maintenance engineering and management with a strong emphasis on basic concepts and practical techniques throughout the book demonstrates in detail how effective technical competencies in maintenance management can be built in engineering organizations the book thus provides students and practising engineers alike with the methodologies and tools needed to understand and implement the systems approach to maintenance management the major goals for the text include to provide a good understanding of different types of maintenance management systems such as breakdown preventive predictive proactive to explain benefits of planned maintenance to explain condition based monitoring techniques with focus on vibration monitoring thermography and motor condition monitoring to stress the role of reliability engineering in maintenance with tools like failure mode and effect analysis root cause analysis and criticality matrix to explain activities of maintenance planning with focus on shutdown planning human resources development and tools employed for monitoring to emphasize management functions such as procurement of spares measurement of maintenance effectiveness etc to give an overview of project management tools such as pert etc to introduce computerized maintenance management systems to explain the basics of hazard analysis and fault tree analysis review questions in each chapter worked out examples wherever applicable case studies and an exclusive appendix on selected questions and answers are all designed to provoke critical thinking this text is suitable for undergraduate and postgraduate courses in maintenance engineering taught in the department of mechanical engineering in almost all universities

a practical guide to maintenance engineering presents a critical review of the physical make up of the equipment it discusses the equipment register equipment codes instrument function terminology and loop function terminology it also addresses planned preventive and running maintenance as

well as the objectives and guidelines of running maintenance some of the topics covered in the book are the preparations of completed planned maintenance service sheet task sheet service sheet and equipment failure sheet maintenance defect monitoring maintenance stores spare part monitoring statutory inspection monitoring maintenance vibration analysis and maintenance management the preparation of safety relief valve schedule is also discussed an in depth analysis of the work order input output flow diagram is provided the planned and preventive maintenance flow diagram is presented a chapter is devoted to creation of test running and maintenance record the book can provide useful information to iron mechanics students and researchers

maintenance engineering is the discipline and profession of applying engineering concepts for the optimization of equipment procedures and departmental budgets to achieve better maintainability reliability and availability of equipment mechanical maintenance engineering is increasing in importance due to rising number of equipment systems machineries and infrastructure maintenance is to ensure a unit is fit for purpose with maximum availability at minimum costs the personnel for maintenance should possess significant knowledge of statistics probability and logistics and additionally in the fundamentals of the operation of the equipment and machinery the book broadly deals with optimization of the maintenance organization structure analysis of repetitive equipment failures estimation of maintenance costs and evaluation of alternatives forecasting of spare parts assessing the needs for equipment replacements and establish replacement programs scheduling and project management principles to replacement programs maintenance tools and skills for efficient maintenance of equipment skills for maintenance personnel reviewing personnel transfers to and from maintenance organizations safety hazards associated with maintenance of equipment this book provides extensive data figures standards and detailed information related to maintenance sufficient information and overview enabling the maintenance engineers to take an informed and confident decision is also provided each chapter and topic dealt with in this book has been provided with a brief and crisp overview and synthesis of pertinent information

the branch of engineering which focuses on the optimization of procedures equipment and

departmental budgets is known as maintenance engineering it also focuses on improving the maintainability availability and reliability of equipment the primary purpose of maintenance engineering is to ensure that a particular unit is ready for use and maximize its availability while minimizing the costs some of the disciplines which contribute knowledge towards maintenance engineering are logistics probability and statistics there are numerous applications of this field such as analyzing repetitive equipment failures forecasting spare parts estimating repair costs and assessing the requirement for equipment replacements this book elucidates the concepts and innovative models around prospective developments with respect to maintenance engineering some of the diverse topics covered in this book address the varied branches that fall under this category scientists and students actively engaged in this field will find this book full of crucial and unexplored concepts

maintenance of equipment machinery systems and allied infrastructure comprises the ways and means of optimizing the available resources of manpower materials tools and test equipment within a set of constraints to help achieve the targets of an organization by minimizing the downtimes whether the goal is to produce and sell a product at a profit or is simply to perform a mission in a cost effective manner the maintenance principles discussed in this text apply equally to all such types of organizations in consonance with the growth of the industry and its modernization and the need to minimize the downtimes of machinery and equipment the engineering education system has included maintenance engineering as a part of its curriculum this second edition of the book continues to focus on the basics of this expanding subject with a broad discussion of management aspects as well for the benefit of the engineering students it explains the concept of a maintenance system the evaluation of its maintenance functions maintenance planning and scheduling the importance of motivation in maintenance the use of computers in maintenance and the economic aspects of maintenance this book also discusses the manpower planning and energy conservation in maintenance management presented in a readable style the book brings together the numerous aspects of maintenance functions emphasizing the importance of this discipline in the engineering education in this edition a new chapter titled advances in maintenance chapter 21 has been

included to widen the coverage of the book besides the students of engineering especially those in streams of mechanical engineering and its related disciplines such as mining industrial and production this book will be useful to the practising engineers as well

generations of engineers and managers have turned to this popular handbook for expert 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 text book on reliability and maintenance engineering has been prepared considering the syllabuses of all technical universities for their be and me courses this book also fulfill the requirement of the university and college teachers engineers technical supervisors and staff who are directly engaged in the industry this book covers traditional and modern concept importance function of maintenance engineering organizational setup and record keeping in maintenance corrosions safety in maintenance various hazards and fault tree analysis house keeping practice in maintenance incentive payments for maintenance workers reliability and availability of engineering systems computerized maintenance information systems total productive maintenance maintenance aspect lubrications inspection and testing in maintenance engineering assets management lean maintenance and application of different techniques in maintenance manpower planning and training

fault diagnosis and condition monitoring spare parts management and quality control in maintenance budgets and cost aspect of maintenance maintenance effectiveness performance evolution and audit maintenance of mechanical electrical process and service equipments machine failure development of preventive maintenance schedule breakdown time distribution and trouble shooting with all these above mentioned features the author is quite confident with feeling that the book will fulfill the demands and needs of maintenance engineers and students

the demands of the global economy require manufacturers to produce highly reliable and easily maintainable engineering products recent studies indicate that for many large and sophisticated products or systems maintenance and support account for as much as 60 to 75 percent of their life cycle costs therefore the role of maintainability maintenance and reliability has become increasingly significant satisfying the pressing need for a volume that addresses these subjects with an interdisciplinary approach maintainability maintenance and reliability for engineers distills knowledge specific to each discipline into one comprehensive resource after reviewing the history of all three fields and their interrelationships the book covers mathematical concepts such as boolean algebra laws probability properties mathematical definitions and probability distributions it includes reliability evaluation methods such as fault tree analysis network reduction method delta method markov method supplementary variables method and reliability management both mechanical and human highlighting maintainability tools and functions the author discusses topics in maintainability management and costing including tasks during product life cycle program plan organization functions design reviews life cycle costing investment cost elements and life cycle cost estimation models the author also includes coverage of maintenance engineering focusing on safety quality corrective and preventive maintenance the book concludes with coverage of maintenance management costing and human error in engineering maintenance and contains 60 illustrations 16 tables and more than 200 equations there is a definite need to consider maintainability maintenance and reliability during product system design and other phases to achieve this goal effectively it is absolutely imperative to have a certain degree of understanding of each of these disciplines

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

of the more than 300 billion spent on plant maintenance and operations u s industry spends as much as 80 percent of this amount to correct chronic failures of machines systems and people with machines and systems becoming increasingly complex this problem can only worsen and there is a clear and pressing need to establish comprehensive equi

updated modernized digitized and streamlined edition of this classic handbook which has been educating plant and facility professionals in every aspect of maintenance engineering for more than half a century

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

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