

# MAINTENANCE ENGINEERING

(PRINCIPLES, PRACTICES AND MANAGEMENT)

Dr. SUSHIL KUMAR SRIVASTAVA



S. CHAND

# S Chand Maintenance Engineering And Management

**Srivastava, Sushil Kumar**



## **S Chand Maintenance Engineering And Management:**

*Maintenance Engineering (Principles, Practices and Management)* Srivastava, Sushil Kumar, 2006 This book is highly useful for the students of B E B Tech of Punjab Technological University Jalandhar and also 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 supervisors technologists and other persons working in or associated with maintenance and upkeep of machines equipments and systems in any shop plant or industry

**Maintenance Engineering & Management** S.K. Srivastava, 2007 The initial edition of the book was based on informations available and technologies and methodologies commonly used till 1995 Since then quite a few improvements have taken place and new technologies and methodologies ect have come up in related fields As such need was felt to upgrade and augment the book in the form of throughly revised edition and change the name to Maintenance Engineering Management The book has been designed to be used as a text book for many engineering disciplines as maintenance Engineering Maintenance Technology or Maintenance Management at degree diploma level and also useful for postgraduate study in most Indian universities institutions and polytechnics

**Engineering Management** A K Gupta, 2014-10 Suitable for engineering and management courses this book intends to develop an understanding of the basic management concepts required in different engineering disciplines and meets the specific requirements of students pursuing B Tech M Tech courses and MBA Post graduate Diploma in Management Engineering Management

Production Planning and Control D.R. Kiran, 2019-06-18 Production Planning and Control draws on practitioner experiences on the shop floor covering everything a manufacturing or industrial engineer needs to know on the topic It provides basic knowledge on production functions that are essential for the effective use of PP C techniques and tools It is written in an approachable style thus making it ideal for readers with limited knowledge of production planning Comprehensive coverage includes quality management lean management factory planning and how they relate to PP C End of chapter questions help readers ensure they have grasped the most important concepts With its focus on actionable knowledge and broad coverage of essential reference material this is the ideal PP C resource to accompany work research or study Uses practical examples from the industry to clearly illustrate the concepts presented Provides a basic overview of statistics to accompany the introduction to forecasting Covers the relevance of PP C to key emerging themes in manufacturing technology including the Industrial Internet of Things and Industry 4

Advances in Manufacturing Technology Rupinder Singh, Sukhdeep Singh Dhami, B. S. Pabla, 2022-03-10 This cross disciplinary book transcends departmental institutional industrial public and research organizations and goes beyond global barriers to cover the integration of research education and manufacturing in advanced materials processing and characterization including

CAD CAM Finite Element Analysis FEA and smart manufacturing Advances in Manufacturing Technology Computational Materials Processing and Characterization focuses on the design of experiment based computational models which involves FEA along with an ergonomics based design of tooling for both conventional and nonconventional manufacturing processes It discusses research work and recent developments in the field of production manufacturing of any mechanical system Case studies and solved numerical solutions are included at the end of each chapter for easy reading comprehension The book is helpful to those working on new developments in the field of product manufacturing It also acts as a first hand source of information for academic scholars and commercial manufacturers as they make strategic manufacturing development plans

Mathematical Modelling Pramod Belkhode, Prashant Maheshwary, Kanchan Borkar, J.P. Modak, 2023-05-16 This book investigates human machine systems through the use of case studies such as crankshaft maintenance liner piston maintenance and biodiesel blend performance Through mathematical modelling and using various case studies the book provides an understanding of how a mathematical modelling approach can assist in working out problems in any industrial oriented activity Mathematical Modelling Simulation Analysis and Industrial Applications details a data analysis approach using mathematical modelling sensitivity This approach helps in the processing of any type of data and can predict the result so that based on the result the activity can be controlled by knowing the most influencing variables or parameters involved in the phenomenon This book helps to solve field and experimental problems of any research activity using a data based modelling concept to assist in solving any type of problem Students in manufacturing mechanical and industrial engineering programs will find this book very useful This topic has continued to advance and incorporate new concepts so that the manufacturing field continues to be a dynamic and exciting field of study **Maintenance Engineering and Management**

K. Pathak, 2004-08 MAINTENANCE ENGINEERING AND MANAGEMENT V. VENKATARAMAN, 2007-07-25 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

*Advances in Data-driven Computing and Intelligent Systems* Swagatam Das, Snehanshu Saha, Carlos A. Coello Coello, Jagdish Chand Bansal, 2023-06-21 The volume is a collection of best selected research papers presented at International Conference on Advances in Data driven Computing and Intelligent Systems ADCIS 2022 held at BITS Pilani K K Birla Goa Campus Goa India during 23 25 September 2022 It includes state of the art research work in the cutting edge technologies in the field of data science and intelligent systems The book presents data driven computing it is a new field of computational analysis which uses provided data to directly produce predictive outcomes The book will be useful for academicians research scholars and industry persons

**Maintenance Engineering & Management** K Venkataraman, 2010

**LEAN AND AGILE MANUFACTURING** DEVADASAN, S. R., SIVAKUMAR, V. MOHAN, MURUGESH, R., SHALIJI, P. R., 2012-06-12 Contemporary fastidious companies are required to eliminate wastes and offer value added products and services to the customers which requirement is fulfilled by adopting the paradigm called lean manufacturing On the other side futuristic companies surge towards reaching the twenty first century mission by reacting quickly in accordance with the dynamic demands of the modern customers for which researchers have been developing a paradigm called agile manufacturing Although various techniques and tools are applied cohesive procedures are yet to be evolved to implement these paradigms systematically and successfully in companies In this context this book is evolved to address students academics practitioners and researchers for gaining theoretical practical and research futuristic knowledge on lean and agile manufacturing paradigms Organised in 18 chapters the text opens with a historical overview of lean and agile manufacturing paradigms It then discusses the lean manufacturing principles with their application procedures The book comprehensively analyses the methods of implementation of lean manufacturing paradigm in both traditional and moderate organisations It also gives an equal treatment to the implementation of agile manufacturing paradigm under four drivers such as management driver technology driver manufacturing strategy driver and competition driver through the adoption of appropriate agile manufacturing criteria The book concludes with a discussion of lean and agile manufacturing paradigms from the perspectives of academia researchers and practitioners The text is well supported by a large number of self test questions with their answers A unique feature of the book is the inclusion of research avenues at the end of each chapter which enable the readers to carry out researches on these paradigms This book is intended for the undergraduate and postgraduate students of industrial manufacturing production and mechanical engineering

MAINTENANCE ENGINEERING AND MANAGEMENT D. R. KIRAN, 2017

Impingement of TPM and TQM on manufacturing performance

Harleen Kaur, Dr. Chandan Deep Singh, Rajdeep Singh, 2018-01-17 Today Total Quality Management and Total Productive Maintenance has developed into a management system as a figure of knowledge and surrounding the inclusive set of engineering ideologies and methods Total Quality Management and Total Productive Maintenance manufacturing has the capability to fortify the industry's competitiveness in the market by dropping wastes and refining quality of product and production efficiency Total Quality Management and Total Productive Maintenance also appeared as a method of achieving the high usage level from available inadequate resources This thesis work demonstrates the findings/inference from the data collected on the constructed questionnaire as discussed in the report and discuss the desired objective of the research study in an analytic way with the proper application of the statistical and analysis tools The analysis of the data collected was performed using PASW STATISTICS 18 software The internal consistency was measured of the questionnaire Cronbach's alpha is a measure of internal consistency that is how closely related a set of items are as a group The Cronbach alpha indices were evaluated for overall questionnaire The surveyed respondents were assessed on various statements based on the parameters of Six sigma The data was collected from the respondents on four point scale regarding the implementation of various issues i.e. not at all to some extent reasonably well and to a great extent On further analysis it was evident that multi skilling of workers is reported to a reasonable extent in 29.09% organizations and to a great extent in 41.81% project managers being assisted by operators is reported to a reasonable extent by 27.27% and to a great extent by 38.18% on the issue of maintenance quality circles reported to a reasonable extent by 43.63% and to great extent by 34.54% Maintenance and quality record keeping is reported by 29.09% to reasonable extent and by 49.09% to great extent Similarly broader job perspectives and employee empowerment is reported to a reasonable extent by 47.27% and to a great extent by 29.09% Unlike these reduction in total product defects is reported by 32.72% and 0.40% to reasonable extent and to great extent respectively

**Proceedings**, 2008      **Indian Books in Print**, 2003      **Handbook of Maintenance Management and Engineering** Mohamed Ben-Daya, Salih O. Duffuaa, Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, 2009-07-30 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

**Industrial Maintenance** H P Garg, Bhagwati Prasad Gupta, 1987-05 The book deals extensively with restoration manufacturing technology of spare parts and planned maintenance The workshop and its products are as good as the machines in it The proper maintenance of the machines as also their accuracy contributes not only to the efficiency of the workshop but to its good reputation The contents of the book cover the whole range of preventive maintenance and manufacturing technology of spare parts Detailed instructions wherever called for have been listed under the appropriate chapters

**The Cumulative Book Index** ,1973 A world list of books in the English language

**Naval Research Logistics** ,1991 The types of articles most sought after by Naval Research Logistics fall into the following classes i modeling and analysis of problems motivated by current real world applications ii exploratory modeling and analysis of problems motivated by potential future real world applications iii major methodological advances and iv expository pieces of exceptional clarity Areas represented include but are not limited to probability statistics simulation optimization game theory scheduling reliability inventory decision analysis and combat models

**Indian Books** ,1972

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