

S Chand Maintenance Engineering And Management

Based on the authors' research, Reliability and Optimal Maintenance presents the latest theories and methods of reliability and maintenance with an emphasis on multi-component systems, while also considering current hot topics in reliability and maintenance including: imperfect repair, economic dependence and opportunistic maintenance, and correlated failure and repair. Software reliability and maintenance cost, and warranty cost considerations are also considered.

According to the syllabus of 2nd semester University of Mumbai.

For B.E./B.Tech. & M.E/ M.Tech. Students of Civil Engineering. Also for Practising Engineering and Designers

For close to 30 years, [Basic Electrical Engineering] has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Reliability and Optimal Maintenance

Project Management - The Complete Process

Principles, Practice and Design of Highway Engineering

Maintenance Engineering Handbook

A Textbook of Automobile Engineering is a comprehensive treatise which provides clear explanation of vehicle components and basic working principles of systems with simple, unique and easy-to-understand illustrations. The textbook also describes the latest and upcoming technologies and developments in automobiles. This edition has been completely updated covering the complete syllabi of most Indian Universities with the aim to be useful for both the students and faculty members. The textbook will also be a valuable source of information and reference for vocational courses, competitive exams, interviews and working professionals.

The 'Maintenance and Work Simplification' will certainly enrich the book regarding the maintenance planning. A major emphasis has been given at every steep to furnish figures which may be easily understandable and reproducible by the students.

Basics of Civil Engineering is considered as one of the basic subjects for all the engineering students of all branches. The contents of this book are framed in such a way that will be useful to the technocrats who are working on the administrative positions to deal with the basic knowledge of civil engineering.

For close to 20 years, [Industrial Engineering and Production Management] has been a successful text for students of Mechanical, Production and Industrial Engineering while also being equally helpful for students of other courses including Management. Divided in 5 parts and 52 chapters, the text combines theory with examples to provide in-depth coverage of the subject.

Economic Crises Perspective

S. Chand's Applied Chemistry Volume - 2 (For 2nd Semester of Mumbai University)

Basic Electrical Engineering

S. Chand's Biology For Class XII

For B.E./B.Tech. students of Anna and Other Technical Universities of India

Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important new developments. With this in view, the book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

This book contains problems in Electrical Machines & Power Systems (Problems with Solutions). I have used these and other problems in the class room for many years. In most of the solutions I have deliberately avoided giving theoretical explanations, because an average student should know the theory well before attempting to solve any problem. However, in each chapter, I have provided a brief introduction related to the chapter so that students are made aware of the contents of the chapter before reading the problems and their solutions. The introduction related to each chapter contains Objective type Questions and their answers. The introductions contains brief notes on the topics of the chapters and also include Indian Standards for testing and maintenance of substation, equipments, transformer, overhead lines, underground cables and materials.

This book, an essential text for hospitality management students, examines the relevance and applications of general management theory and principles to hospitality organizations. Using contemporary material and case studies, the book indicates ways in which performance may be improved through better use of human resources. Rigorous academic theory is related to hospitality practice, based on the authors' great knowledge of the hospitality industry. The text takes a vocational basis and the illustration of the theory with the real-life examples of hospitality management in action provides a solid and stimulating introduction to the subject.

Engineering Fundamentals: An Introduction to Engineering, SI Edition

Theory of Machines

S.Chand'S Engineering Chemistry

Railway Engineering and Maintenance of Way

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.

Applied Chemistry Vol-2

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

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.

Industrial Maintenance

Generation of Electrical Energy, 7th Edition

A Textbook Of Water Power Engineering

S. Chand's Basics of Civil Engineering (For B.E. 1st Semester of RTM University, Nagpur)

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.

For Civil Engineering Students of All Indian Universities and Practicing Engineers

This book is written exclusively for the students of various branches of engineering in accordance with the latest RTM Nagpur University syllabus, which caters to the requirement of their 1st Semester of 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

A Comprehensive Approach

Indian Books in Print

Operations Management and Data Analytics Modelling

Hydraulics and Pneumatics Controls

While writing the book we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C.(Engg. Services)and A.M.I.E.(I)examinations.In order to make this volume more useful for them,complete solutions of their examination papers up to 1975 have also been included.Every care has been taken to make this treatise as self-explanatory as possible.The subject matter has been amply illustrated by incorporating a good number of solved,unsolved and well graded examples of almost every variety.

The Book Is Primarily Intended To Meet The Demands For A Textbook On The Subject That Systematically Covers The Complete Syllabus Of Uptu On Industrial Engineering For The Second Year B.Tech. Students Of Mechanical, Industrial, Production And Metallurgical Engineering Branches. The Book Precisely Covers The Material In Required Details In A Lucid Manner Using Simple English To Enable An Average Student To Grasp The Subject. Sufficient Solved Examples Have Been Included Throughout The Text To Illustrate The Concepts. Simple Illustrative Reproducible Sketches And Diagrams Have Been Given To Help In Easy Comprehension Of The Subject.The Book Includes The Basic Topics On Industrial Engineering In Twenty Three Chapters. The First Chapter Presents A Detailed Introduction Highlighting The Subject Along With Its Need And Importance. The Book Covers Topics Like: Productivity, Workstudy, Job Evaluation, Plant Layout, Materials Handling, Production Planning And Control, Depreciation, Replacement Analysis, Inventory Control, Mrp, Tqm, Business Organization, Forms Of Ownership, Hrp, Factory Legislation, Sales Management, Forecasting Accounting, Budgetary Control, Project Management (Pert/Cprm), Break-Even Analysis, Or, Engineering Economy, Oplimisation Analysis, E-Commerce, Quality Management Of Physical Resources.

This is the revised edition of the book with new chapters to incorporate the latest developments in the field.It contains approx. 200 problems from various competitive examinations (GATE, IES, IAS) have been included.The author does hope that with this, the utility of the book will be further enhanced.

Including Dams Engineering, Hydrology and Fluid Power Engineering. For the student of B.E./B.Tech. Civil Engg., Institution of Engineers (India) U.P.S.C. Exam & Practising Engineers.

Foreign Commerce Weekly

A Textbook of Transportation Engineering

Maintenance Engineering & Management

S. Chand's Question Bank Biology CBSE Class XII Term 2

Discusses developments in the integration of production, quality, and maintenance models, critical components of the manufacturing system. The effective integration of these four components gives a manufacturing operation the competitive edge in today's global market place.

High surface area, a microporous structure, and a high degree of surface reactivity make activated carbons versatile adsorbents, particularly effective in the adsorption of organic and inorganic pollutants from aqueous solutions. Activated Carbon

Adsorption introduces the parameters and mechanisms involved in the activated carbon adsorption

This well-received text, designed for the students of MBA, BTech (Mechanical Engineering and Industrial and Production Engineering) and MTech (Industrial Engineering and Management), has been revised and reorganized in its second edition. The book, divided into six sections, deals with the concepts of core maintenance and related auxiliary functions, core spares issues, related auxiliary spares functions, caselets and policy cases. This research-based study attempts to impart a comprehensive knowledge of maintenance and spare parts management, particularly in the Indian context. Illustrations, tables, caselets, cases and presentation of several topics in A-Z points add pedagogic value to the text.

S.Chand S Biology -XII - CBSE

Maintenance Engineering (Principles, Practices and Management)

S.Chand's Engineering Physics Vol-Ii

A Textbook of Automobile Engineering

Professional Hotel Management (P.B.)

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.

S. Chand's Question Bank for Science, Class X, Term-2 is based on CBSE competency-based evaluation guidelines—latest pattern of examination which includes MCQs, Assertion-Reasoning, Case/Situation-based questions, Open-ended Short Answer and Long Answer type questions.

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

Installation Servicing and Maintenance

Electrical Machines & Power Systems (Problems With Solutions)

Industrial Engineering and Production Management

Maintenance and Spare Parts Management

Operations Management and Data Analytics Modelling: Economic Crises Perspective addresses real operation management problems in thrust areas like the healthcare and energy management sectors and Industry 4.0. It discusses recent advances and trends in developing data-driven operation management-based methodologies, big data analysis, application of computers in industrial engineering, optimization techniques, development of decision support systems for industrial operation, the role of a multiple-criteria decision-making (MCDM) approach in operation management, fuzzy set theory-based operation management modelling and Lean Six Sigma. Features Discusses the importance of data analytics in industrial operations to improve economy Provides step-by-step implementation of operation management models to identify best practices Covers in-depth analysis using data-based operation management tools and techniques Discusses mathematical modelling for novel operation management models to solve industrial problems This book is aimed at graduate students and professionals in the field of industrial and production engineering, mechanical engineering and materials science.

This textbook covers the entire gamut of project scoping, identification, development and appraisal and is primarily designed to meet the requirements of postgraduate students of management

and engineering education. Researchers, consultants, policy makers and professionals in project management will find it a good body of knowledge as a reference source. The objective of the book is to provide a multidisciplinary grounding to the readers so that they can develop all the skills and competencies required to view or manage the entire project management process as an integrated whole. The book has been written in an easy-to-understand style and uses live case studies of renewable energy projects to illustrate the concepts, so that the students/readers understand them in the context of the real world. Though based on renewable energy projects, majority of the concepts explained in the book are applicable to other industrial projects equally - detailed guidance and notes on this aspect is given appropriately in the book.

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 thoroughly 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.

Two new chapters on general Thermodynamic Relations and Variable Specific Heat have been Added. The mistake which had crept in have been eliminated. We wish to express our sincere thanks to numerous professors and students, both at home and abroad, for sending their valuable suggestions and also for recommending the book to their students and friends.

Production Planning and Control

Integrated Models in Production Planning, Inventory, Quality, and Maintenance

Industrial Engineering

A Textbook of Thermal Engineering

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.

Activated Carbon Adsorption

A Textbook of Production Engineering

Engineering Management

MAINTENANCE ENGINEERING AND MANAGEMENT