

# Mechanical Measurement Instrumentation Rk Rajput

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*A Textbook of Engineering Thermodynamics* - R.K. Rajput 2005-12

Engineering Metrology and Measurements - Raghavendra, 2013-05  
Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Mechanical Measurements and Instrumentation (including Metrology and Control Systems) - R.K. Rajput 2015

**Maintenance Engineering Handbook** - Keith Mobley 2008-04-20  
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

**Comprehensive Engineering Thermodynamics** - R.K. Rajput 2005

**Electronic Measurements and Instrumentation** - K. Lal Kishore  
Electronic Measurements and Instrumentation provides a comprehensive blend of the theoretical and practical aspects of electronic measurements and instrumentation. Spread across eight chapters, this book provides a comprehensive coverage of each topic in the syllabus with a special focus on oscilloscopes and transducers. The key features of the book are clear illustrations and circuit diagrams for enhanced comprehension; points to

remember that help students grasp the essence of each chapter; objective-type questions, review questions, and unsolved problems provided at the end of each chapter, which help students prepare for competitive examinations; solved numerical problems and examples are provided, which enable the reader to understand design aspects better and to enable students to comprehend basic principles; and summaries at the end of each chapter that help students recapitulate all the concepts learnt.

*Electrical Engineering* - R.K. Rajput 2007

*Mechanical Measurements* - Thomas G. Beckwith 1998

**Comprehensive Basic Mechanical Engineering** - R.K. Rajput 2005

*Heat and Mass Transfer : A Textbook for the Students Preparing for B.E., B.Tech., B.Sc. Engg., AMIE, UPSC (Engg. Services) and GATE Examinations* - R. K. Rajput 2007

The entire book has been thoroughly revised and a large number of solved examples under heading Additional/Typical Worked Examples (Questions selected from various Universities and Competitive Examinations) have been added at the end of the book.

*A Textbook of Machine Design* - RS Khurmi | JK Gupta 2005

The present multicolor edition has been thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and practice. This book has already been included in the 'suggested reading' for the A.M.I.E. (India) examinations.

**A Textbook of Fluid Mechanics LPSPE** - RK Rajput 2019

A Textbook of Fluid Mechanics" provides a comprehensive coverage of the syllabus of Fluid Mechanics for different technical universities in India. Fluid mechanics has several categories, such as include Fluid kinematics, Fluid statics and Fluid dynamics. A total of 16 chapters followed by two special chapters of 'Universities' Questions (Latest) with

Solutions' and 'GATE and UPSC Examinations' Questions with Answers/Solutions' after each unit also make it an excellent resource for aspirants of various entrance examinations.

**Engineering Thermodynamics** - R. K. Rajput 2010

Mechanical Engineering

A Textbook of Strength of Materials - RK Rajput

A comprehensive and lucidly written book, [Strength of Materials] captures the syllabus of most major Indian Universities and competitive examinations as well. The book discusses everything under solids and its mechanics (such as providing different aspects of stresses) and provides the reader with a deeper interest in the subject [all within aptly formed chapters. It also contains typical examples (useful for students appearing in competitive examinations in particular and other students in general), highlights, objective type questions and a large number of unsolved examples for a complete grasp of the subject.

Engineering Thermodynamics: A Computer Approach (SI Units Version) - R. K. Rajput 2009-03-12

Intended as a textbook for "applied" or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

**Electronic Measurements and Instrumentation** - RK Rajput 2009

In this edition, the book has been completely updated by adding new topics in various chapters. Besides this, two new chapters namely : "Microprocessors and Microcontrollers" (Chapter-13) and "Universities Questions (Latest) with Solutions" (Chapter-14) have been added to make

the book still more useful to the readers.

**Mechanical Measurements** - S.P. Venkateshan 2021-07-01

This book focuses both on the basics and more complex topics in mechanical measurements such as measurement errors & statistical analysis of data, regression analysis, heat flux, measurement of pressure, and radiation properties of surfaces. End of chapter problems, solved illustrations, and exercise problems are presented throughout the book to augment learning. It is a useful reference for students in both undergraduate and postgraduate programs. ^

**Non-Conventional Energy Sources and Utilisation** - RK Rajput 2012

First Edition 2012; Reprints 2013, Second Revised Edition 2014 I. The Textbook entitled "Non- Conventional Energy Sources and Utilisation" has been written especially for the courses of B.E./B. Tech. for all Technical Universities of India. II. It deals exhaustively and symmetrically various topics on "Non -Conventional Renewable and Conventional Energy and Systems." III.. Salient Features of the book: □ Subject matter has been prepared in lucid, direct and easily understandable style. □ Simple diagrams and worked out examples have been given wherever necessary. □ At the end of each chapter, Highlights, Theoretical Questions, Unsolved examples have been added to make this treatise a complete comprehensive book on the subject. In this edition, the book has been thoroughly revised and a new Section on "SHORT ANSWER QUESTIONS" has been added to make the book still more useful to the students.

A Textbook of Manufacturing Technology - R. K. Rajput 2007

Mechanical Vibrations: Theory and Applications - Kelly 2012-07-27

Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular

Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

System and Measurements - Yong Sang 2020-01-20

This book provides the basic concepts and fundamental principles of dynamic systems including experimental methods, calibration, signal conditioning, data acquisition and processing as well as the results presentation. How to select suitable sensors to measure is also introduced. It is an essential reference to students, lecturers, professionals and any interested lay readers in measurement technology.

Mechanical Measurements & Instrumentation - R. K. Rajput 2009

**Basic Electrical and Electronics Engineering** - R.K. Rajput 2007

Electrical Measurements and Measuring Instruments - R. K. Rajput 2009-09

This treatise on the subject Electrical Measurements and Measuring Instruments contains comprehensive treatment of the subject matter in simple, lucid and direct language. I covers the syllabi of the various Indian Universities in this subject exhaustively.

MECHANICAL WORKSHOP PRACTICE - K. C. JOHN 2010-08-27

Designed for the core course on Workshop Practice offered to all first-year diploma and degree level students of engineering, this book presents clear and concise explanation of the basic principles of manufacturing processes and equips students with overall knowledge of engineering materials, tools and equipment commonly used in the engineering field. The book describes the general principles of different

workshop processes such as primary and secondary shaping processes, metal joining methods, surface finishing and heat treatment. The workshop processes covered also include the hand-working processes such as benchwork, fitting, arc welding, sheet metal work, carpentry, blacksmithy and foundry. It also explains the importance of safety measures to be followed in workshop processes and details the procedure of writing the records of the practices. The tools and equipment used in each hand-working process are enumerated before elaborating the process. Finally, the book discusses the machining processes such as turning operations, the cutting tools and the tools used for measuring and marking, and explains the working principle of Engine Lathe. An appendix for advanced level practice and assessment of work has also been included. New to This Edition : A separate chapter on Plumbing as per the revised syllabus of Indian Universities Method for sketching isometric single line piping layout Neatly-drawn illustrations and examples on Plumbing Key Features : Follows the International Standard Organization (ISO) code of practice for drawings. Includes a large number of illustrations to explain the methods and processes discussed. Contains chapter-end questions for viva voce test and exercises for making models.

**Engineering Materials and Metallurgy** - RK Rajput 2006

This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple, lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way. The book comprises five chapters (excluding basic concepts) in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th Semester Mechanical, Production, Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.

**A Text Book of Automobile Engineering** - R. K. Rajput 2008

*A Textbook of Electrical Technology* - R. K. Rajput 2004

**Internal Combustion Engines** - R.K. Rajput 2005-12

*FLUID MECHANICS, Second Edition* - A. K. MOHANTY 1994-01-01

In this new edition of Fluid Mechanics, which is a revised and substantially expanded version of the first edition, several new topics like open channel flow, hydraulic turbines, hydraulic transients, flow measurements and pumps and fans have been added. The chapter on one-dimensional viscous flow has also been expanded. With the addition of five new chapters, the treatment is now more in depth and comprehensive. The book gives a thorough analysis of topics such as fluid statics, fluid kinematics, analysis of finite control volumes, and the mechanical energy equation. It provides a comprehensive description of one-dimensional viscous flow, dimensional analysis, two-dimensional flow of ideal fluids, and normal and oblique shocks. Each chapter ends with a Summary and Exercises, which enables the student to recapture the topics discussed and drill him in the theory. Finally, the worked-out examples with solutions to most of them should be of considerable assistance to the reader in comprehending the problems discussed. The book should prove to be an ideal text for the undergraduate students of Civil and Mechanical Engineering and as a ready reference for the first-level postgraduate student.

*Elements of Mechanical Engineering* - R.K. Rajput 2005

*A Textbook of Fluid Mechanics and Hydraulic Machines* - RK Rajput

Divided in two parts, [A Textbook of Fluid Mechanics and Hydraulic Machines] is one of the most exhaustive texts on the subject for close to 20 years. For the students of Mechanical Engineering, it can easily be used as a reference text for other courses as well. Important topics ranging from Fluid Dynamics, Laminar Flow and Turbulent Flow to Hydraulic Turbines and Centrifugal pumps are well explained in this book. A total of 23 chapters (combined both units) followed by two special chapters of [Universities' Questions (Latest) with Solutions] and [GATE and UPSC Examinations' Questions with Answers/Solutions] after each unit also make it an excellent resource for aspirants of various entrance examinations.

Fluid Mechanics & Hydraulic Machines - R. K. Rajput 2008

The entire book has been thoroughly revised by adding adequate text and a large number of typical examples selected from various universities and competitive examinations question papers. Besides this, Laboratory Experiments have also been added at the end of the book to make it still more a comprehensive and complete unit in all respects.

*A Textbook of Fluid Mechanics* - R. K. Rajput 2008

This treatise on fluid Mechanics, contains comprehensive treatment of the subject matter in simple, lucid and direct language and envelopes a large number of solved problems properly graded, including typical examples from examination point of view. The book comprises 16 chapters. All chapters of the book are saturated with much needed text supported by simple and self-explanatory figures and a large number of worked examples including Typical Examples (for competitive examinations). At the end of each chapter Highlights, objective Type Questions, Theoretical Questions and Unsolved Examples have been added to make the book a comprehensive and a complete unit in all respects.

**Basic Mechanical Engineering** - Rajput 2002

Mechanical Engineering - R.K. Rajput 2006-12

**Thermal Engineering** - R.K. Rajput 2005

**Engineering Metrology & Instrumentation** - R.K. Rajput 2009-01-01

**Introduction to Instrumentation and Measurements** - Robert B. Northrop 2018-09-03

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC)

and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Electronic Measurements and Instrumentation - RS Sedha 2013

The book is meant for B.E./B.Tech. students of different universities of India and abroad. It contains all basic material required at undergraduate level. The author has included "Examination questions" from several Indian Universities as solved examples. The sections on "Descriptive Questions" and "Multiple Choice Questions" contains the

theory type examination questions and objective questions respectively.