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ELEMENTS OF MECHANICAL ENGINEERING(GTU) 2010

THE BOOK STRICTLY COMPLIES WITH THE NEW SYLLABUS OF GUJRAT TECHNOLOGICAL UNIVERSITY AHMEDABAD FOR B E FIRST YEAR OF ALL BRACHES OF ENGINEERING THE SUBJECT MATTER IS PRESENTED IN A GRADED STEPWISE EASYTOFOLLOW STYLE EACH CHAPTER INCLUDES MULIPLECHOICE QUESTIONS REVIEW QUESTIONS AND EXERCISES FOR EASY RECAPITULATION

THERMAL ENGINEERING 1999

THIS BOOK PROVIDES A COMPREHENSIVE OVERVIEW OF THIS MULTI DISCIPLINARY SUBJECT WHICH HAS INTERACTION WITH OTHER DISCIPLINES SUCH AS MINERALOGY PETROLOGY STRUCTURAL GEOLOGY HYDROGEOLOGY SEISMIC ENGINEERING ROCK ENGINEERING SOIL MECHANICS GEOPHYSICS REMOTE SENSING RS GIS GPS ENVIRONMENTAL GEOLOGY ETC

THERMAL ENGINEERING 2004

STRICTLY ACCORDING TO THE NEW SYLLABUS OF GUJARAT TECHNOLOGY UNIVERSITY AHMEDABAD COMMON TO ALL BRANCHES OF B E B TECH ST YEAR

THERMAL ENGINEERING 2005

ENGINEERING PHYSICS HAS BEEN SPECIFICALLY DESIGNED AND WRITTEN TO MEET THE REQUIREMENTS OF THE ENGINEERING STUDENTS OF GTU ALL THE TOPICS AND SUB TOPICS ARE NEATLY ARRANGED FOR THE STUDENTS A NUMBER OF ASSIGNMENT PROBLEMS ALONG WITH QUESTIONS AND ANSWERS HAVE ALSO BEEN PROVIDED MCQS FOR THE BRIDGE COURSE HAVE BEEN DESIGNED IN SUCH A WAY THAT THE STUDENTS CAN RECOLLECT EVERY CONCEPT THAT THEY HAVE READ AND APPLY EASILY DURING THE EXAMINATION KEY FEATURES DETAILED DISCUSSION OF EVERY TOPIC FROM ELEMENTARY TO COMPREHENSIVE LEVEL WITH SEVERAL WORKED OUT EXAMPLES A SECTION ON PRACTICALS SOLVED QUESTION PAPERS DEC 2013 AND JUNE 2014 AS PER THE SYLLABUS FOR 2013 14

ENGINEERING GEOLOGY (FOR GTU) 2010-01-01

ABOUT BOOK ABOUT BOOK THIS EDITION OF THE BOOK IS BASED ON THE SYLLABUS OF THERMAL ENGINEERING II FOR THE THIRD YEAR ENGINEERING STUDENTS OF ALL DISCIPLINES OF MSU GUJARAT TECHNOLOGICAL UNIVERSITY GUJARAT EACH CHAPTER CONTAINS A NUMBER OF SOLVED AND UNSOLVED PROBLEMS TO IMBUE SELF CONFIDENCE IN THE STUDENTS DIAGRAMS ARE PREPARED IN ACCORDANCE WITH ISI FOR DIMENSIONING THE LATEST METHOD IS FOLLOWED AND SI UNITS ARE USED

S. CHAND'S ENGINEERING PHYSICS (FOR GTU, AHMEDABAD) 2011

ABOUT BOOK ABOUT BOOK THIS EDITION OF THE BOOK IS BASED ON THE SYLLABUS OF THERMAL ENGINEERING I FOR THE THIRD YEAR ENGINEERING STUDENTS OF ALL DISCIPLINES OF MSU GUJARAT TECHNOLOGICAL UNIVERSITY GUJARAT EACH CHAPTER CONTAINS A NUMBER OF SOLVED AND UNSOLVED PROBLEMS TO IMBUE SELF CONFIDENCE IN THE STUDENTS DIAGRAMS ARE PREPARED IN ACCORDANCE WITH ISI FOR DIMENSIONING THE LATEST METHOD IS FOLLOWED AND SI UNITS ARE USED

Engineering Physics (with Practicals) (GTU), 8th Edition 2023-02-12

THIS BOOK PROVIDES THE FUNDAMENTALS OF THE APPLICATION OF MATHEMATICAL METHODS MODERN COMPUTATIONAL TOOLS EXCEL MATHCAD SMATH ETC AND THE INTERNET TO SOLVE THE TYPICAL PROBLEMS OF HEAT AND MASS TRANSFER THERMODYNAMICS FLUID DYNAMICS ENERGY CONSERVATION AND ENERGY EFFICIENCY CHAPTERS COVER THE TECHNOLOGY FOR CREATING AND USING DATABASES ON VARIOUS PROPERTIES OF WORKING FLUIDS COOLANTS AND THERMAL MATERIALS ALL CALCULATION METHODS ARE PROVIDED WITH LINKS TO ONLINE COMPUTATIONAL PAGES WHERE DATA CAN BE INSERTED AND RECALCULATED IT DISCUSSES TASKS INVOLVING THE GENERATION OF ELECTRICITY AT THERMAL NUCLEAR GAS TURBINE AND COMBINED CYCLE POWER PLANTS AS WELL AS PROCESSES OF CO AND TRIGENERATION CONDITIONING FACILITIES AND HEAT PUMPS THIS TEXT ENGAGES STUDENTS AND RESEARCHERS BY USING MODERN CALCULATION TOOLS AND THE INTERNET FOR THERMAL ENGINEERING APPLICATIONS

THERMAL ENGINEERING-II 2023-01-30

THERMAL TO MECHANICAL ENERGY CONVERSION ENGINES AND REQUIREMENTS IS A COMPONENT OF ENCYCLOPEDIA OF ENERGY SCIENCES
ENGINEERING AND TECHNOLOGY RESOURCES IN THE GLOBAL ENCYCLOPEDIA OF LIFE SUPPORT SYSTEMS EOLSS WHICH IS AN INTEGRATED
COMPENDIUM OF TWENTY ONE ENCYCLOPEDIAS THE THEME ON THERMAL TO MECHANICAL ENERGY CONVERSION ENGINES AND REQUIREMENTS
WITH CONTRIBUTIONS FROM DISTINGUISHED EXPERTS IN THE FIELD DISCUSSES ENERGY THESE THREE VOLUMES ARE AIMED AT THE FOLLOWING
FIVE MAJOR TARGET AUDIENCES UNIVERSITY AND COLLEGE STUDENTS EDUCATORS PROFESSIONAL PRACTITIONERS RESEARCH PERSONNEL AND
POLICY ANALYSTS MANAGERS AND DECISION MAKERS AND NGOS

THERMAL ENGINEERING-I 2016-02-05

THIS BOOK PROVIDES A COMPREHENSIVE AND WIDE RANGING INTRODUCTION TO THE FUNDAMENTAL PRINCIPLES OF MECHANICAL ENGINEERING IN A DISTINCT AND CLEAR MANNER THE BOOK IS INTENDED FOR A CORE INTRODUCTORY COURSE IN THE AREA OF FOUNDATIONS AND APPLICATIONS OF MECHANICAL ENGINEERING PRESCRIBED FOR THE FIRST YEAR STUDENTS OF ALL DISCIPLINES OF ENGINEERING THE BOOK DEVELOPS AN INTUITIVE UNDERSTANDING OF THE BASIC PRINCIPLES OF THERMODYNAMICS AS WELL AS OF THE PRINCIPLES GOVERNING THE CONVERSION OF HEAT INTO ENERGY NUMEROUS ILLUSTRATIVE EXAMPLES ARE PROVIDED TO FORTIFY THESE CONCEPTS THROUGHOUT THE BOOK GIVES THE STUDENTS A FEEL FOR HOW THERMODYNAMICS IS APPLIED IN ENGINEERING PRACTICE IN THE AREAS OF HEAT ENGINES STEAM BOILERS INTERNAL COMBUSTION ENGINES REFRIGERATION AND AIR CONDITIONING AND TO DEVICES SUCH AS TURBINES PUMPS AND COMPRESSORS THE BOOK ALSO PROVIDES A BASIC UNDERSTANDING OF MECHANICAL DESIGN ILLUSTRATING THE PRINCIPLES THROUGH A DISCUSSION OF DEVICES DESIGNED FOR THE TRANSMISSION OF MOTION AND POWER SUCH AS COUPLINGS CLUTCHES AND BRAKES NO BOOK ON BASIC MECHANICAL ENGINEERING IS COMPLETE WITHOUT AN INTRODUCTION TO MATERIALS SCIENCE THE TEXT COVERS THE TREATMENT OF THE COMMON ENGINEERING MATERIALS HIGHLIGHTING THEIR PROPERTIES AND APPLICATIONS FINALLY THE ROLE OF LUBRICATION AND LUBRICANTS IN REDUCING THE WEAR AND TEAR OF PARTS IN MECHANICAL SYSTEMS IS LUCIDLY EXPLAINED IN THE CONCLUDING CHAPTER THE TEXT FEATURES SEVERAL FULLY WORKED OUT EXAMPLES A FAIRLY LARGE NUMBER OF NUMERICAL PROBLEMS WITH ANSWERS END OF CHAPTER REVIEW QUESTIONS AND MULTIPLE CHOICE QUESTIONS WHICH ALL ENHANCE THE VALUE OF THE TEXT TO THE STUDENTS BESIDES THE STUDENTS STUDYING FOR AN ENGINEERING DEGREE THIS BOOK IS ALSO SUITABLE FOR STUDY BY THE STUDENTS OF AMIE AND THE STUDENTS OF DIPLOMA LEVEL COURSES

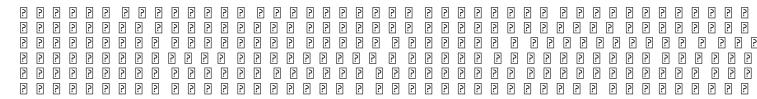
THERMAL ENGINEERING STUDIES WITH EXCEL, MATHCAD AND INTERNET 2010-09

NATURAL GAS IS A VITAL COMPONENT OF THE WORLD S SUPPLY OF ENERGY AND AN IMPORTANT SOURCE OF MANY BULK CHEMICALS AND SPECIALITY CHEMICALS IT IS ONE OF THE CLEANEST SAFEST AND MOST USEFUL OF ALL ENERGY SOURCES AND HELPS TO MEET THE WORLD S RISING DEMAND FOR CLEANER ENERGY INTO THE FUTURE HOWEVER EXPLORING PRODUCING AND BRINGING GAS TO THE USER OR CONVERTING GAS INTO DESIRED CHEMICALS IS A SYSTEMATICAL ENGINEERING PROJECT AND EVERY STEP REQUIRES THOROUGH UNDERSTANDING OF GAS AND THE SURROUNDING ENVIRONMENT ANY ADVANCES IN THE PROCESS LINK COULD MAKE A STEP CHANGE IN GAS INDUSTRY THERE HAVE BEEN INCREASING EFFORTS IN GAS INDUSTRY IN RECENT YEARS WITH STATE OF THE ART CONTRIBUTIONS BY LEADING EXPERTS IN THE FIELD THIS BOOK ADDRESSED THE TECHNOLOGY ADVANCES IN NATURAL GAS INDUSTRY

ENGINEERING MATHEMATICS III (FOR GTU) 2009-11-20

THE BOOK IS WRITTEN FOR AN UNDERGRADUATE COURSE ON THE FEEDBACK CONTROL SYSTEMS IT PROVIDES COMPREHENSIVE EXPLANATION OF THEORY AND PRACTICE OF CONTROL SYSTEM ENGINEERING IT ELABORATES VARIOUS ASPECTS OF TIME DOMAIN AND FREQUENCY DOMAIN ANALYSIS AND DESIGN OF CONTROL SYSTEMS EACH CHAPTER STARTS WITH THE BACKGROUND OF THE TOPIC THEN IT GIVES THE CONCEPTUAL KNOWLEDGE ABOUT THE TOPIC DIVIDING IT IN VARIOUS SECTIONS AND SUBSECTIONS EACH CHAPTER PROVIDES THE DETAILED EXPLANATION OF THE TOPIC PRACTICAL EXAMPLES AND VARIETY OF SOLVED PROBLEMS THE EXPLANATIONS ARE GIVEN USING VERY SIMPLE AND LUCID LANGUAGE ALL THE CHAPTERS ARE ARRANGED IN A SPECIFIC SEQUENCE WHICH HELPS TO BUILD THE UNDERSTANDING OF THE SUBJECT IN A LOGICAL FASHION THE BOOK STARTS WITH EXPLAINING THE VARIOUS TYPES OF CONTROL SYSTEMS THEN IT EXPLAINS HOW TO OBTAIN THE MATHEMATICAL MODELS OF VARIOUS TYPES OF SYSTEMS SUCH AS ELECTRICAL MECHANICAL THERMAL AND LIQUID LEVEL SYSTEMS THEN THE BOOK INCLUDES GOOD COVERAGE OF THE BLOCK DIAGRAM AND SIGNAL FLOW GRAPH METHODS OF REPRESENTING THE VARIOUS SYSTEMS AND THE REDUCTION METHODS TO OBTAIN SIMPLE SYSTEM FROM THE ANALYSIS POINT OF VIEW THE BOOK FURTHER ILLUSTRATES THE STEADY STATE AND TRANSIENT ANALYSIS OF CONTROL SYSTEMS THE BOOK COVERS THE FUNDAMENTAL KNOWLEDGE OF CONTROLLERS USED IN PRACTICE TO OPTIMIZE THE PERFORMANCE OF THE SYSTEMS THE BOOK EMPHASIZES THE DETAILED ANALYSIS OF SECOND ORDER SYSTEMS AS THESE SYSTEMS ARE COMMON IN PRACTICE AND HIGHER ORDER SYSTEMS CAN BE APPROXIMATED AS SECOND ORDER SYSTEMS THE BOOK TEACHES THE CONCEPT OF STABILITY AND TIME DOMAIN STABILITY ANALYSIS USING ROUTH HURWITZ METHOD AND ROOT LOCUS METHOD IT FURTHER EXPLAINS THE FUNDAMENTALS OF FREQUENCY DOMAIN ANALYSIS OF THE SYSTEMS INCLUDING CO RELATION BETWEEN TIME DOMAIN AND FREQUENCY DOMAIN THE BOOK GIVES VERY SIMPLE TECHNIQUES FOR STABILITY ANALYSIS OF THE SYSTEMS IN THE FREQUENCY DOMAIN USING BODE PLOT POLAR PLOT AND NYQUIST PLOT METHODS IT ALSO EXPLORES THE CONCEPTS OF COMPENSATION AND DESIGN OF THE CONTROL SYSTEMS IN TIME DOMAIN AND FREQUENCY DOMAIN THE CLASSICAL APPROACH LOSES THE IMPORTANCE OF INITIAL CONDITIONS IN THE SYSTEMS THUS THE BOOK PROVIDES THE DETAILED EXPLANATION OF MODERN APPROACH OF ANALYSIS WHICH IS THE STATE VARIABLE ANALYSIS OF THE SYSTEMS INCLUDING METHODS OF FINDING THE STATE TRANSITION MATRIX SOLUTION OF STATE EQUATION AND THE CONCEPTS OF CONTROLLABILITY AND OBSERVABILITY THE VARIETY OF SOLVED EXAMPLES IS THE FEATURE OF THIS BOOK WHICH HELPS TO INCULCATE THE KNOWLEDGE OF THE DESIGN AND ANALYSIS OF THE CONTROL SYSTEMS IN THE STUDENTS THE BOOK EXPLAINS THE PHILOSOPHY OF THE SUBJECT WHICH MAKES THE UNDERSTANDING OF THE CONCEPTS VERY CLEAR AND MAKES THE SUBJECT MORE INTERESTING

THERMAL TO MECHANICAL ENERGY CONVERSION: ENGINES AND REQUIREMENTS - VOLUME III 2013-04-08



ELEMENTS OF MECHANICAL ENGINEERING 1981

COMPREHENSIVE ENERGY SYSTEMS SEVEN VOLUME SET PROVIDES A UNIFIED SOURCE OF INFORMATION COVERING THE ENTIRE SPECTRUM OF ENERGY ONE OF THE MOST SIGNIFICANT ISSUES HUMANITY HAS TO FACE THIS COMPREHENSIVE BOOK DESCRIBES TRADITIONAL AND NOVEL. ENERGY SYSTEMS FROM SINGLE GENERATION TO MULTI GENERATION ALSO COVERING THEORY AND APPLICATIONS IN ADDITION IT ALSO PRESENTS HIGH LEVEL COVERAGE ON ENERGY POLICIES STRATEGIES ENVIRONMENTAL IMPACTS AND SUSTAINABLE DEVELOPMENT NO OTHER PUBLISHED WORK COVERS SUCH BREADTH OF TOPICS IN SIMILAR DEPTH HIGH LEVEL SECTIONS INCLUDE ENERGY FUNDAMENTALS ENERGY MATERIALS ENERGY PRODUCTION ENERGY CONVERSION AND ENERGY MANAGEMENT OFFERS THE MOST COMPREHENSIVE RESOURCE AVAILABLE ON THE TOPIC OF ENERGY SYSTEMS PRESENTS AN AUTHORITATIVE RESOURCE AUTHORED AND EDITED BY LEADING EXPERTS IN THE FIELD CONSOLIDATES INFORMATION CURRENTLY SCATTERED IN PUBLICATIONS FROM DIFFERENT RESEARCH FIELDS ENGINEERING AS WELL AS PHYSICS CHEMISTRY ENVIRONMENTAL SCIENCES AND ECONOMICS THUS ENSURING A COMMON STANDARD AND LANGUAGE

SOVIET POWER ENGINEERING 1971

BACK ACTION OF AERODYNAMICS ONTO STRUCTURES SUCH AS WINGS CAUSE VIBRATIONS AND MAY RESONANTLY COUPLE TO THEM THUS CAUSING INSTABILITIES FLUTTER AND ENDANGERING THE WHOLE STRUCTURE BY CAREFUL CHOICES OF GEOMETRY MATERIALS AND DAMPING MECHANISMS HAZARDOUS EFFECTS ON WIND ENGINES PLANES TURBINES AND CARS CAN BE AVOIDED BESIDES AN INTRODUCTION INTO THE PROBLEM OF FLUTTER NEW FORMULATIONS OF FLUTTER PROBLEMS ARE GIVEN AS WELL AS A TREATISE OF SUPERSONIC FLUTTER AND OF A WHOLE RANGE OF MECHANICAL EFFECTS NUMERICAL AND ANALYTICAL METHODS TO STUDY THEM ARE DEVELOPED AND APPLIED TO THE ANALYSIS OF NEW CLASSES OF FLUTTER PROBLEMS FOR PLATES AND SHALLOW SHELLS OF ARBITRARY PLANE FORM SPECIFIC PROBLEMS DISCUSSED IN THE BOOK IN THE CONTEXT OF NUMERICAL SIMULATIONS ARE SUPPLEMENTED BY FORTRAN CODE EXAMPLES AVAILABLE ON THE WEBSITE

APPLIED MECHANICS REVIEWS 1996

PROCEEDINGS OF THE SYMPOSIUM HELD IN BAL HARBOUR FLORIDA DECEMBER 1987 rising energy prices have been encouraging work on the use of thermal insulation to conserve energy here more than 50 papers discuss new materials assessments and properties of foams loose fill behavior system performance

PROCEEDINGS OF THE ... INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE 1996

MANY NEW TESTS OF GRAVITY AND IN PARTICULAR OF EINSTEIN S GENERAL RELATIVITY THEORY WILL BE CARRIED OUT IN THE NEAR FUTURE THE LENSE THIRRING EFFECT AND THE EQUIVALENCE PRINCIPLE WILL BE TESTED IN SPACE MOREOVER GRAVITATIONAL WAVES WILL BE DETECTED AND NEW ATOMIC INTERFEROMETERS AND CLOCKS WILL BE BUILT FOR MEASUREMENTS IN GRAVITATIONAL AND INERTIAL FIELDS NEW HIGH PRECISION DEVICES HAVE MADE THESE EXPERIMENTS FEASIBLE THEY WILL CONTRIBUTE TO A BETTER UNDERSTANDING OF GRAVITATIONAL PHYSICS BOTH EXPERIMENTAL DEVELOPMENTS AND THE THEORETICAL CONCEPTS ARE COLLECTED IN THIS VOLUME EXHAUSTIVE REVIEWS GIVE AN OVERALL INSIGHT INTO THE SUBJECT OF EXPERIMENTAL GRAVITATION

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GYROS, CLOCKS, INTERFEROMETERS...: TESTING RELATIVISTIC GRAVITY IN SPACE 1969

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