Rc Hibbeler Mechanics Of Materials

Textbook of Mechanics of MaterialsStrength of Materials and StructuresIntermediate Mechanics of MaterialsMechanics of MaterialsAdvanced Mechanics of MaterialsMechanics of MaterialsIntroduction to Mechanics of MaterialsMechanics of Materials Volume 1Mechanics of MaterialsEngineering Mechanics of MaterialsApplied Mechanics of MaterialsMechanics of MaterialsMECHANICS OF MATERIALSMechanics of MaterialsA Text-book on the Mechanics of Materials, and of Beams, Columns, and ShaftsMechanics of MaterialsAdvanced Mechanics of MaterialsMechanics of MaterialsMechanics of MaterialsMechanics of Materials Prakash M. N. Shesha John Case J. R. Barber Russell C. Hibbeler Robert Davis Cook Christopher Jenkins William F. Riley E.J. Hearn Robert W. Fitzgerald B.B. Muvdi Joseph Edward Shigley Ferdinand Pierre Beer M. A. JAYARAM J. L. Robinson Mansfield Merriman Ferdinand Pierre Beer Hugh Ford Christopher Jenkins Ferdinand Pierre Beer E. J. Hearn

Textbook of Mechanics of Materials Strength of Materials and Structures Intermediate Mechanics of Materials Mechanics of Materials Advanced Mechanics of Materials Mechanics of Materials Introduction to Mechanics of Materials Mechanics of Materials Volume 1 Mechanics of Materials Engineering Mechanics of Materials Applied Mechanics of Materials Mechanics of Materials MECHANICS OF MATERIALS Mechanics of Materials A Text-book on the Mechanics of Materials, and of Beams, Columns, and Shafts Mechanics of Materials Advanced Mechanics of Materials Mechanics of Materials Mechanics of Materials Mechanics of Materials *Prakash M. N. Shesha John Case J. R. Barber Russell C. Hibbeler Robert Davis Cook Christopher Jenkins William F. Riley E.J. Hearn Robert W. Fitzgerald B.B. Muvdi Joseph Edward Shigley Ferdinand Pierre Beer M. A. JAYARAM J. L. Robinson Mansfield Merriman Ferdinand Pierre Beer Hugh Ford Christopher Jenkins Ferdinand Pierre Beer E. J. Hearn*

THIS TEXTBOOK COVERS THE FUNDAMENTAL PRINCIPLES AND APPLICATIONS AND DISCUSSES TOPICS SUCH AS SIMPLE AND COMPOUND STRESSES BENDING MOMENTS SHEAR FORCES STRESSES IN BEAMS DEFLECTION IN BEAMS TORSION OF SHAFTS THICK AND THIN CYLINDERS AND COLUMNS ANS STRUTS

STRENGTH OF MATERIALS AND STRUCTURES AN INTRODUCTION TO THE MECHANICS OF SOLIDS AND STRUCTURES PROVIDES AN INTRODUCTION TO THE APPLICATION OF BASIC IDEAS IN SOLID AND STRUCTURAL MECHANICS TO ENGINEERING PROBLEMS THIS BOOK BEGINS WITH A SIMPLE DISCUSSION OF STRESSES AND STRAINS IN MATERIALS STRUCTURAL COMPONENTS AND FORMS THEY TAKE IN TENSION COMPRESSION AND SHEAR THE GENERAL PROPERTIES OF STRESS AND STRAIN AND ITS APPLICATION TO A WIDE RANGE OF PROBLEMS ARE ALSO DESCRIBED INCLUDING SHELLS BEAMS AND SHAFTS THIS TEXT LIKEWISE CONSIDERS AN INTRODUCTION TO THE IMPORTANT PRINCIPLE OF VIRTUAL WORK AND ITS TWO SPECIAL FORMS LEADING TO STRAIN ENERGY AND COMPLEMENTARY ENERGY THE LAST CHAPTERS ARE DEVOTED TO BUCKLING VIBRATIONS AND IMPACT STRESSES THIS PUBLICATION IS A GOOD REFERENCE FOR ENGINEERING UNDERGRADUATES WHO ARE IN THEIR FIRST OR SECOND YEARS

THIS BOOK COVERS THE ESSENTIAL TOPICS FOR A SECOND LEVEL COURSE IN STRENGTH OF MATERIALS OR MECHANICS OF MATERIALS WITH AN EMPHASIS ON TECHNIQUES THAT ARE USEFUL FOR MECHANICAL DESIGN DESIGN TYPICALLY INVOLVES AN INITIAL CONCEPTUAL STAGE DURING WHICH MANY OPTIONS ARE CONSIDERED AT THIS STAGE QUICK APPROXIMATE ANALYTICAL METHODS ARE CRUCIAL IN DETERMINING WHICH OF THE INITIAL PROPOSALS ARE FEASIBLE THE IDEAL WOULD BE TO GET WITHIN 30 WITH A FEW LINES OF CALCULATION THE DESIGNER ALSO NEEDS TO DEVELOP EXPERIENCE AS TO THE KINDS OF FEATURES IN THE GEOMETRY OR THE LOADING THAT ARE MOST LIKELY TO LEAD TO CRITICAL CONDITIONS WITH THIS IN MIND THE AUTHOR TRIES WHEREVER POSSIBLE TO GIVE A PHYSICAL AND EVEN AN INTUITIVE INTERPRETATION TO THE PROBLEMS UNDER INVESTIGATION FOR EXAMPLE STUDENTS ARE ENCOURAGED TO ESTIMATE THE LOCATION OF WEAK AND STRONG BENDING AXES AND THE RESULTING NEUTRAL AXIS OF BENDING BEFORE PERFORMING CALCULATIONS AND THE AUTHOR DISCUSSES WAYS OFGETTING GOOD ACCURACY WITH A SIMPLE ONE DEGREE OF FREEDOM RAYLEIGH RITZ APPROXIMATION STUDENTS ARE ALSO ENCOURAGED TO DEVELOP A FEELING FOR STRUCTURAL DEFORMATION BY PERFORMING SIMPLE EXPERIMENTS IN THEIR OUTSIDE ENVIRONMENT SUCH AS ESTIMATING THE RADIUS TO WHICH AN INITIALLY STRAIGHT BAR CAN BE BENT WITHOUT PRODUCING PERMANENT DEFORMATION OR CONVINCING THEMSELVES OF THE DRAMATIC DIFFERENCE BETWEEN TORSIONAL AND BENDING STIFFNESS FOR A THIN WALLED OPEN BEAM SECTION BY TRYING TO BEND AND THEN TWIST A STRUCTURAL STEEL BEAM BY HAND APPLIED LOADS AT ONE END IN CHOOSING DIMENSIONS FOR MECHANICAL COMPONENTS DESIGNERS WILL EXPECT TO BE GUIDED BY CRITERIA OF MINIMUM WEIGHT WHICH WITH ELEMENTARY CALCULATIONS GENERALLY LEADS TO A THIN WALLED STRUCTURE AS AN OPTIMAL SOLUTION THIS CONSIDERATION MOTIVATES THE EMPHASIS ON THIN WALLED STRUCTURES BUT ALSO DEMANDS THAT STUDENTS BE INTRODUCED TO THE LIMITS IMPOSED BY STRUCTURAL INSTABILITY EMPHASIS IS ALSO PLACED ON THE EFFECTOF MANUFACTURING ERRORS ON SUCH HIGHLY DESIGNED STRUCTURES FOR EXAMPLE THE EFFECT OF LOAD MISALIGNMENT ON A BEAM WITH A LARGE RATIO BETWEEN PRINCIPAL STIFFNESS AND THE LARGE MAGNIFICATION OF INITIAL ALIGNMENT OR LOADING ERRORS IN A STRUT BELOW BUT NOT TOO FAR BELOW THE BUCKLING LOAD ADDITIONAL MATERIAL

CAN BE FOUND ON EXTRAS SPRINGER COM

ALERT BEFORE YOU PURCHASE CHECK WITH YOUR INSTRUCTOR OR REVIEW YOUR COURSE SYLLABUS TO ENSURE THAT YOU SELECT THE CORRECT ISBN SEVERAL VERSIONS OF PEARSON S MYLAB MASTERING PRODUCTS EXIST FOR EACH TITLE INCLUDING CUSTOMIZED VERSIONS FOR INDIVIDUAL SCHOOLS AND REGISTRATIONS ARE NOT TRANSFERABLE IN ADDITION YOU MAY NEED A COURSEID PROVIDED BY YOUR INSTRUCTOR TO REGISTER FOR AND USE PEARSON S MYLAB MASTERING PRODUCTS PACKAGES ACCESS CODES FOR PEARSON S MYLAB MASTERING PRODUCTS MAY NOT BE INCLUDED WHEN PURCHASING OR RENTING FROM COMPANIES OTHER THAN PEARSON CHECK WITH THE SELLER BEFORE COMPLETING YOUR PURCHASE USED OR RENTAL BOOKS IF YOU RENT OR PURCHASE A USED BOOK WITH AN ACCESS CODE THE ACCESS CODE MAY HAVE BEEN REDEEMED PREVIOUSLY AND YOU MAY HAVE TO PURCHASE A NEW ACCESS CODE ACCESS CODES ACCESS CODES THAT ARE PURCHASED FROM SELLERS OTHER THAN PEARSON CARRY A HIGHER RISK OF BEING EITHER THE WRONG ISBN OR A PREVIOUSLY REDEEMED CODE CHECK WITH THE SELLER PRIOR TO PURCHASE FOR UNDERGRADUATE MECHANICS OF MATERIALS COURSES IN MECHANICAL CIVIL AND AEROSPACE ENGINEERING DEPARTMENTS CONTAINING HIBBELER S HALLMARK STUDENT ORIENTED FEATURES THIS TEXT IS IN FOUR COLOR WITH A PHOTOREALISTIC ART PROGRAM DESIGNED TO HELP STUDENTS VISUALIZE DIFFICULT CONCEPTS A CLEAR CONCISE WRITING STYLE AND MORE EXAMPLES THAN ANY OTHER TEXT FURTHER CONTRIBUTE TO STUDENTS ABILITY TO MASTER THE MATERIAL THIS EDITION IS AVAILABLE WITH MASTERINGENGINEERING AN INNOVATIVE ONLINE PROGRAM CREATED TO EMULATE THE INSTRUCTOR S OFFICE HOUR ENVIRONMENT GUIDING STUDENTS THROUGH ENGINEERING CONCEPTS FROM MECHANICS OF MATERIALS WITH SELF PACED INDIVIDUALIZED COACHING NOTE MASTERING IS NOT A SELF PACED TECHNOLOGY AND SHOULD ONLY BE PURCHASED WHEN REQUIRED BY AN INSTRUCTOR 0133409325 9780133409321 MECHANICS OF MATERIALS PLUS MASTERINGENGINEERING WITH PEARSON ETEXT STANDALONE ACCESS CARD PACKAGE CONSISTS OF 0133254429 9780133254426 MECHANICS OF MATERIALS 9 E 0133402738 9780133402735 MASTERINGENGINEERING WITH PEARSON ETEXT STANDALONE ACCESS CARD FOR MECHANICS OF MATERIALS

TREATS TOPICS BY EXTENDING CONCEPTS AND PROCEDURES A STEP OR TWO BEYOND ELEMENTARY MECHANICS OF MATERIALS AND EMPHASIZES THE PHYSICAL VIEW MATHEMATICAL COMPLEXITY IS NOT USED WHERE IT IS NOT NEEDED INCLUDES NEW COVERAGE OF SYMMETRY CONSIDERATIONS RECTANGULAR PLATES IN BENDING PLASTIC ACTION IN PLATES AND CRITICAL SPEED OF ROTATING SHAFTS EXPANDS THE COVERAGE OF FATIGUE THE RECIPROCAL THEOREM SEMI INVERSE PROBLEMS IN ELASTICITY THERMAL STRESS AND BUCKLING

THIS BOOK IS THE FIRST TO BRIDGE THE OFTEN DISPARATE BODIES OF KNOWLEDGE NOW KNOWN AS APPLIED MECHANICS AND MATERIALS SCIENCE USING A VERY METHODOLOGICAL PROCESS

TO INTRODUCE MECHANICS MATERIALS AND DESIGN ISSUES IN A MANNER CALLED TOTAL STRUCTURAL DESIGN THIS BOOK SEEKS A SOLUTION IN TOTAL DESIGN SPACE FEATURES INCLUDE A GENERALIZED DESIGN TEMPLATE FOR SOLVING STRUCTURAL DESIGN PROBLEMS EVERY CHAPTER FIRST INTRODUCES MECHANICS CONCEPTS THROUGH DEFORMATION EQUILIBRIUM AND ENERGY CONSIDERATIONS THEN THE CONSTITUTIVE NATURE OF THE CHAPTER TOPIC IS PRESENTED FOLLOWED BY A LINK BETWEEN MECHANICS AND MATERIALS CONCEPTS DETAILS OF ANALYSIS AND MATERIALS SELECTION ARE SUBSEQUENTLY DISCUSSED A CONCLUDING EXAMPLE DESIGN PROBLEM IS PROVIDED IN MOST CHAPTERS SO THAT STUDENTS MAY GET A SENSE OF HOW MECHANICS AND MATERIALS COME TOGETHER IN THE DESIGN OF A REAL STRUCTURE EXERCISES ARE PROVIDED THAT ARE GERMANE TO AEROSPACE CIVIL AND MECHANICAL ENGINEERING APPLICATIONS AND INCLUDE BOTH DETERMINISTIC AND DESIGN TYPE PROBLEMS ACCOMPANYING WEBSITE CONTAINS A WEALTH OF INFORMATION COMPLEMENTARY TO THIS TEXT INCLUDING A SET OF VIRTUAL LABS SEPARATE SITE AREAS ARE AVAILABLE FOR THE INSTRUCTOR AND STUDENTS COMBINES THEORIES OF SOLID MECHANICS MATERIALS SCIENCE AND STRUCTURAL DESIGN IN ONE COHERENT TEXT REFERENCE COVERS PHYSICAL SCALES FROM THE ATOMISTIC TO CONTINUUM MECHANICS OFFERS A GENERALIZED STRUCTURAL DESIGN TEMPLATE

A CONCISE UPDATED SUCCESSOR TO THE SUCCESSFUL MECHANICS OF MATERIALS BY HIGDON OLSEN STILES WEESE AND RILEY THIS TEXT IS DESIGNED FOR A FIRST COURSE IN MECHANICS OF DEFORMABLE BODIES IT PRESENTS THE CONCEPTS AND SKILLS THAT FORM THE FOUNDATION OF ALL STRUCTURAL ANALYSIS AND MACHINE DESIGN PRESENTATION RELIES ON FREE BODY DIAGRAMS APPLICATION OF THE EQUATIONS OF EQUILIBRIUM VISUALIZATION AND USE OF THE GEOMETRY OF THE DEFORMED BODY AND USE OF THE RELATIONS BETWEEN STRESSES AND STRAINS FOR THE MATERIAL BEING USED STRESS TRANSFORMATION IS COVERED LATER IN THIS BOOK THAN IN THE HIGDON TEXT INCLUDES MANY ILLUSTRATIVE EXAMPLES AND HOMEWORK PROBLEMS ALSO CONTAINS COMPUTER PROBLEMS AND AN APPENDIX ON COMPUTER METHODS

ONE OF THE MOST IMPORTANT SUBJECTS FOR ANY STUDENT OF ENGINEERING TO MASTER IS THE BEHAVIOUR OF MATERIALS AND STRUCTURES UNDER LOAD THE WAY IN WHICH THEY REACT TO APPLIED FORCES THE DEFLECTIONS RESULTING AND THE STRESSES AND STRAINS SET UP IN THE BODIES CONCERNED ARE ALL VITAL CONSIDERATIONS WHEN DESIGNING A MECHANICAL COMPONENT SUCH THAT IT WILL NOT FAIL UNDER PREDICTED LOAD DURING ITS SERVICE LIFETIME ALL THE ESSENTIAL ELEMENTS OF A TREATMENT OF THESE TOPICS ARE CONTAINED WITHIN THIS COURSE OF STUDY STARTING WITH AN INTRODUCTION TO THE CONCEPTS OF STRESS AND STRAIN SHEAR FORCE AND BENDING MOMENTS AND MOVING ON TO THE EXAMINATION OF BENDING SHEAR AND TORSION IN ELEMENTS SUCH AS BEAMS CYLINDERS SHELLS AND SPRINGS A SIMPLE TREATMENT OF COMPLEX STRESS AND COMPLEX STRAIN LEADS TO A STUDY OF THE THEORIES OF ELASTIC FAILURE AND AN INTRODUCTION TO THE EXPERIMENTAL METHODS OF STRESS AND STRAIN ANALYSIS MORE ADVANCED TOPICS ARE DEALT WITH IN A COMPANION

VOLUME MECHANICS OF MATERIALS 2 EACH CHAPTER CONTAINS A SUMMARY OF THE ESSENTIAL FORMULAE WHICH ARE DEVELOPED IN THE CHAPTER AND A LARGE NUMBER OF WORKED EXAMPLES WHICH PROGRESS IN LEVEL OF DIFFICULTY AS THE PRINCIPLES ARE ENLARGED UPON IN ADDITION EACH CHAPTER CONCLUDES WITH AN EXTENSIVE SELECTION OF PROBLEMS FOR SOLUTION BY THE STUDENT MOSTLY EXAMINATION QUESTIONS FROM PROFESSIONAL AND ACADEMIC BODIES WHICH ARE GRADED ACCORDING TO DIFFICULTY AND FURNISHED WITH ANSWERS AT THE END EMPHASIS ON PRACTICAL LEARNING AND APPLICATIONS RATHER THAN THEORY PROVIDES THE ESSENTIAL FORMULAE FOR EACH INDIVIDUAL CHAPTER CONTAINS NUMEROUS WORKED EXAMPLES AND PROBLEMS

WE ARE PLEASED TO PRESENT THE GLOBAL EDITION WHICH HAS BEEN DEVELOPED SPECIFICALLY TO MEET THE NEEDS OF INTERNATIONAL STUDENTS OF ENGINEERING MECHANICS IN ADDITION TO A PRECISE PRESENTATION OF THE SUBJECT ILLUSTRATED WITH NUMEROUS ENGINEERING EXAMPLES FROM THEORY AND PRACTICE WE HAVE ADDED NEW MATERIAL TO MAKE THE CONTENT MORE RELEVANT AND IMPROVE LEARNING OUTCOMES FOR THE INTERNATIONAL STUDENT USED BY THOUSANDS OF STUDENTS AROUND THE GLOBE SINCE ITS PUBLICATION IN 1981 MECHANICS OF MATERIALS PROVIDES A PRECISE PRESENTATION OF THE SUBJECT ILLUSTRATED WITH NUMEROUS ENGINEERING EXAMPLES THAT STUDENTS BOTH UNDERSTAND AND RELATE TO THEORY AND

APPLICATION THE TRIED AND TRUE METHODOLOGY FOR PRESENTING MATERIAL GIVES YOUR STUDENT THE BEST OPPORTUNITY TO SUCCEED IN THIS COURSE FROM THE DETAILED EXAMPLES TO THE HOMEWORK PROBLEMS TO THE CAREFULLY DEVELOPED SOLUTIONS MANUAL YOU AND YOUR STUDENTS CAN BE CONFIDENT THE MATERIAL IS CLEARLY EXPLAINED AND ACCURATELY REPRESENTED

THIS TEXT PROVIDES UNDERGRADUATE ENGINEERING STUDENTS WITH A SYSTEMATIC TREATMENT OF BOTH THE THEORY AND APPLICATIONS OF MECHANICS OF MATERIALS WITH A STRONG EMPHASIS ON BASIC CONCEPTS AND TECHNIQUES THROUGHOUT THE TEXT FOCUSES ON ANALYTICAL UNDERSTANDING OF THE SUBJECT BY THE STUDENTS AN ABUNDANCE OF WORKED OUT EXAMPLES DEPICTING REALISTIC SITUATIONS ENCOUNTERED IN ENGINEERING DESIGN ARE AIMED TO DEVELOP SKILLS FOR ANALYSIS AND DESIGN OF COMPONENTS TO BROADEN THE STUDENT S CAPACITY FOR ADOPTING OTHER FORMS OF SOLVING PROBLEMS A FEW TYPICAL PROBLEMS ARE PRESENTED IN C PROGRAMMING LANGUAGE AT THE END OF EACH CHAPTER THE BOOK IS PRIMARILY SUITABLE FOR A ONE SEMESTER COURSE FOR B E B TECH STUDENTS AND DIPLOMA LEVEL STUDENTS PURSUING COURSES IN CIVIL ENGINEERING MECHANICAL ENGINEERING AND ITS RELATED BRANCHES OF ENGINEERING PROFESSION SUCH AS PRODUCTION ENGINEERING INDUSTRIAL ENGINEERING AUTOMOBILE ENGINEERING AND AERONAUTICAL ENGINEERING THE BOOK CAN ALSO BE USED TO ADVANTAGE BY STUDENTS OF ELECTRICAL ENGINEERING WHERE AN INTRODUCTORY COURSE ON MECHANICS OF MATERIALS IS PRESCRIBED KEY FEATURES INCLUDES NUMEROUS CLEAR AND EASY TO FOLLOW EXAMPLES TO ILLUSTRATE THE APPLICATION OF THEORY TO PRACTICAL PROBLEMS PROVIDES NUMEROUS END OF CHAPTER PROBLEMS FOR STUDY AND REVIEW GIVES SUMMARY AT THE END OF EACH CHAPTER TO ALLOW STUDENTS TO RECAPITULATE THE TOPICS INCLUDES C PROGRAMS WITH QUITE A FEW C GRAPHICS TO ENCOURAGE STUDENTS TO BUILD UP COMPETENCIES IN COMPUTER APPLICATIONS

BEER AND JOHNSTON S MECHANICS OF MATERIALS IS THE UNCONTESTED LEADER FOR THE TEACHING OF SOLID MECHANICS USED BY THOUSANDS OF STUDENTS AROUND THE GLOBE SINCE PUBLICATION MECHANICS OF MATERIALS PROVIDES A PRECISE PRESENTATION OF THE SUBJECT ILLUSTRATED WITH NUMEROUS ENGINEERING EXAMPLES THAT STUDENTS BOTH UNDERSTAND AND RELATE TO THEORY AND APPLICATION THE TRIED AND TRUE METHODOLOGY FOR PRESENTING MATERIAL GIVES YOUR STUDENT THE BEST OPPORTUNITY TO SUCCEED IN THIS COURSE FROM THE DETAILED EXAMPLES TO THE HOMEWORK PROBLEMS TO THE CAREFULLY DEVELOPED SOLUTIONS MANUAL YOU AND YOUR STUDENTS CAN BE CONFIDENT THE MATERIAL IS CLEARLY EXPLAINED AND ACCURATELY REPRESENTED MCGRAW HILL IS PROUD TO OFFER CONNECT WITH THE SEVENTH EDITION OF BEER AND JOHNSTON S MECHANICS OF MATERIALS THIS INNOVATIVE AND POWERFUL SYSTEM HELPS YOUR STUDENTS LEARN MORE EFFECTIVELY AND GIVES YOU THE ABILITY TO ASSIGN HOMEWORK PROBLEMS SIMPLY AND EASILY PROBLEMS ARE GRADED

AUTOMATICALLY AND THE RESULTS ARE RECORDED IMMEDIATELY TRACK INDIVIDUAL STUDENT PERFORMANCE BY QUESTION ASSIGNMENT OR IN RELATION TO THE CLASS OVERALL WITH DETAILED GRADE REPORTS CONNECTPLUS PROVIDES STUDENTS WITH ALL THE ADVANTAGES OF CONNECT PLUS 24 7 ACCESS TO AN EBOOK BEER AND JOHNSTON S MECHANICS OF MATERIALS SEVENTH EDITION INCLUDES THE POWER OF MCGRAW HILL S LEARNSMART A PROVEN ADAPTIVE LEARNING SYSTEM THAT HELPS STUDENTS LEARN FASTER STUDY MORE EFFICIENTLY AND RETAIN MORE KNOWLEDGE THROUGH A SERIES OF ADAPTIVE QUESTIONS THIS INNOVATIVE STUDY TOOL PINPOINTS CONCEPTS THE STUDENT DOES NOT UNDERSTAND AND MAPS OUT A PERSONALIZED PLAN FOR SUCCESS

QUOT THE UNIFYING TREATMENT OF STRUCTURAL DESIGN PRESENTED HERE SHOULD PROVE USEFUL TO ANY ENGINEER INVOLVED IN THE DESIGN OF STRUCTURES A CRUCIAL DIVIDE TO BE BRIDGED IS THAT BETWEEN APPLIED MECHANICS AND MATERIALS SCIENCE THE ONSET OF SPECIALIZATION AND THE RAPID RISE OF TECHNOLOGY HOWEVER HAVE CREATED SEPARATE DISCIPLINES CONCERNED WITH THE DEFORMATION OF SOLID MATERIALS UNFORTUNATELY THE RESULT IS IN MANY CASES THAT SOCIETY LOSES OUT ON HAVING AT THEIR SERVICE EFFICIENT HIGH PERFORMANCE MATERIAL STRUCTURAL SYSTEMS QUOT QUOT WE FOLLOW IN THIS TEXT A VERY METHODOLOGICAL PROCESS TO INTRODUCE MECHANICS MATERIALS AND DESIGN ISSUES IN A MANNER CALLED TOTAL STRUCTURAL DESIGN THE IDEA IS TO SEEK A SOLUTION IN QUOT TOTAL DESIGN SPACE QUOT QUOT QUOT THE MATERIAL PRESENTED IN THIS TEXT IS SUITABLE FOR A FIRST COURSE THAT ENCOMPASSES BOTH THE TRADITIONAL MECHANICS OF MATERIALS AND PROPERTIES OF MATERIALS COURSES THE TEXT IS ALSO APPROPRIATE FOR A SECOND COURSE IN MECHANICS OF MATERIALS OR A FOLLOW ON COURSE IN DESIGN OF STRUCTURES TAKEN AFTER THE TYPICAL INTRODUCTORY MECHANICS AND PROPERTIES COURSES THIS TEXT CAN BE ADAPTED TO SEVERAL DIFFERENT CURRICULUM FORMATS WHETHER TRADITIONAL OR MODERN INSTRUCTORS USING THE TEXT FOR A TRADITIONAL COURSE MAY FIND THAT THE TEXT IN FACT FACILITATES TRANSFORMING THEIR COURSE OVER TIME TO A MORE MODERN INTEGRATED APPROACH QUOT BOOK JACKET

THIS TEXT WIDELY USED AND HIGHLY REGARDED IN IT FIRST EDITION IS INTENDED FOR THE CORE COURSE IN MECHANICS OR STRENGTH OF MATERIALS WHICH IS GENERALLY TAUGHT AT THE SOPHOMORE OR JUNIOR LEVEL WELL KNOWN FOR ITS CLARITY AND ACCURACY THE BOOK ALSO PROVIDES A WEALTH OF PROBLEMS MOST OF WHICH ARE NEW IN THIS EDITION TUTORIAL SOFTWARE ACCOMPANIES EACH BOOK

MECHANICS OF MATERIALS SECOND EDITION VOLUME 2 PRESENTS DISCUSSIONS AND WORKED EXAMPLES OF THE BEHAVIOR OF SOLID BODIES UNDER LOAD THE BOOK COVERS THE COMPONENTS AND THEIR RESPECTIVE MECHANICAL BEHAVIOR THE COVERAGE OF THE TEXT INCLUDES COMPONENTS SUCH CYLINDERS STRUTS AND DIAPHRAGMS THE BOOK COVERS THE METHODS FOR

analyzing experimental stress torsion of non circular and thin walled sections and strains beyond the elastic limit fatigue creep and fracture are also discussed the text will be of great use to undergraduate and practitioners of various engineering braches such as materials engineering and structural engineering

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