

Civil Engineering Design Of Rcc Structure

RIGHT HERE, WE HAVE COUNTLESS BOOK **CIVIL ENGINEERING DESIGN OF RCC STRUCTURE** AND COLLECTIONS TO CHECK OUT. WE ADDITIONALLY MEET THE EXPENSE OF VARIANT TYPES AND FURTHERMORE TYPE OF THE BOOKS TO BROWSE. THE SATISFACTORY BOOK, FICTION, HISTORY, NOVEL, SCIENTIFIC RESEARCH, AS CAPABLY AS VARIOUS EXTRA SORTS OF BOOKS ARE READILY AFFABLE HERE.

AS THIS CIVIL ENGINEERING DESIGN OF RCC STRUCTURE, IT ENDS TAKING PLACE VISCERAL ONE OF THE FAVORED BOOK CIVIL ENGINEERING DESIGN OF RCC STRUCTURE COLLECTIONS THAT WE HAVE. THIS IS WHY YOU REMAIN IN THE BEST WEBSITE TO SEE THE UNBELIEVABLE BOOKS TO HAVE.

LIMIT STATE DESIGN OF REINFORCED CONCRETE B. C. PUNMIA 2007

DESIGN OF INDUSTRIAL STRUCTURES ASHOK KUMAR DASGUPTA 2021-11-26 THIS BOOK BRIDGES THE GAP BETWEEN ACADEMIC AND PROFESSIONAL FIELD PERTAINING TO DESIGN OF INDUSTRIAL REINFORCED CEMENT CONCRETE AND STEEL STRUCTURES. IT COVERS PERTINENT TOPICS ON CONTRACTS, SPECIFICATIONS, SOIL SURVEY AND DESIGN CRITERIA TO CLARIFY OBJECTIVES OF THE DESIGN WORK. FURTHER, IT GIVES OUT GUIDING PROCEDURES ON HOW TO PROCEED WITH THE CONSTRUCTION IN PHASES AT SITE, NEGOTIATING CHANGES IN EQUIPMENT AND DESIGN DEVELOPMENT. SAFETY, QUALITY AND ECONOMIC REQUIREMENTS OF DESIGN ARE EXPLAINED WITH REFERENCE TO GLOBAL CODES. LATEST METHODS OF ANALYSIS, DESIGN AND USE OF ADVANCED CONSTRUCTION MATERIALS HAVE BEEN ILLUSTRATED ALONG WITH A BRIEF ON ANALYSIS SOFTWARE AND DRAFTING TOOL.

FUNDAMENTALS OF REINFORCED CONCRETE DESIGN M. L. GAMBHIR 2006-10-07 DESIGNED PRIMARILY AS A TEXT FOR UNDERGRADUATE STUDENTS OF CIVIL ENGINEERING FOR THEIR FIRST COURSE ON LIMIT STATE DESIGN OF REINFORCED CONCRETE, THIS COMPACT AND WELL-ORGANIZED TEXT COVERS ALL THE FUNDAMENTAL CONCEPTS IN A HIGHLY READABLE STYLE. THE TEXT CONFORMS TO THE PROVISION OF THE LATEST REVISION OF INDIAN CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE, IS : 456 (2000). FIRST SIX CHAPTERS DEAL WITH FUNDAMENTALS OF LIMIT STATES DESIGN OF REINFORCED CONCRETE. THE OBJECTIVE OF LAST TWO CHAPTERS (INCLUDING DESIGN AIDS IN APPENDIX) IS TO INITIATE THE READERS IN PRACTICAL DESIGN OF CONCRETE STRUCTURES. THE TEXT GIVES DETAILED DISCUSSION OF BASIC CONCEPTS, BEHAVIOUR OF THE VARIOUS STRUCTURAL COMPONENTS UNDER LOADS, AND DEVELOPMENT OF FUNDAMENTAL EXPRESSIONS FOR ANALYSIS AND DESIGN. IT ALSO PRESENTS EFFICIENT AND SYSTEMATIC PROCEDURES FOR SOLVING DESIGN PROBLEMS. IN ADDITION TO THE DISCUSSION OF BASIS FOR DESIGN CALCULATIONS, A LARGE NUMBER OF WORKED-OUT PRACTICAL DESIGN EXAMPLES BASED ON THE CURRENT DESIGN PRACTICES HAVE BEEN INCLUDED TO ILLUSTRATE THE BASIC PRINCIPLES OF REINFORCED CONCRETE DESIGN. BESIDES STUDENTS, PRACTISING ENGINEERS WOULD FIND THIS TEXT EXTREMELY USEFUL.

PRINCIPLES OF REINFORCED CONCRETE DESIGN METE A. SOZEN 2014-07-14 ENCOURAGING CREATIVE USES OF REINFORCED CONCRETE, PRINCIPLES OF REINFORCED CONCRETE DESIGN DRAWS A CLEAR DISTINCTION BETWEEN FUNDAMENTALS AND PROFESSIONAL CONSENSUS. THIS TEXT PRESENTS A MIXTURE OF FUNDAMENTALS ALONG WITH PRACTICAL METHODS. IT PROVIDES THE FUNDAMENTAL CONCEPTS REQUIRED FOR DESIGNING REINFORCED CONCRETE (RC) STRUCTURES, EMPHASIZING PRINCIPLES BASED ON MECHANICS, EXPERIENCE, AND EXPERIMENTATION, WHILE ENCOURAGING PRACTITIONERS TO CONSULT THEIR LOCAL BUILDING CODES. THE BOOK PRESENTS DESIGN CHOICES THAT FALL IN LINE WITH THE BOUNDARIES DEFINED BY PROFESSIONAL CONSENSUS (BUILDING CODES), AND PROVIDES REFERENCE MATERIAL OUTLINING THE DESIGN CRITERIA CONTAINED IN BUILDING CODES. IT INCLUDES APPLICATIONS FOR BOTH BUILDING AND BRIDGE STRUCTURAL DESIGN, AND IT IS APPLICABLE WORLDWIDE, AS IT IS NOT DEPENDENT UPON ANY PARTICULAR CODES. CONTAINS CONCISE COVERAGE THAT CAN BE TAUGHT IN ONE SEMESTER UNDERSCORES THE FUNDAMENTAL PRINCIPLES OF BEHAVIOR PROVIDES STUDENTS WITH AN UNDERSTANDING OF THE PRINCIPLES UPON WHICH CODES ARE BASED ASSISTS IN NAVIGATING THE LABYRINTH OF EVER-CHANGING CODES FOSTERS AN INHERENT UNDERSTANDING OF DESIGN THE TEXT ALSO PROVIDES A BRIEF HISTORY OF REINFORCED CONCRETE. WHILE THE INITIAL ATTRACTION FOR USING REINFORCED CONCRETE IN BUILDING CONSTRUCTION HAS BEEN ATTRIBUTED TO ITS FIRE RESISTANCE, ITS INCREASE IN POPULARITY WAS ALSO DUE TO THE CREATIVITY OF ENGINEERS WHO KEPT EXTENDING ITS LIMITS OF APPLICATION. ALONG WITH HEIGHT ACHIEVEMENT, REINFORCED CONCRETE GAINED MOMENTUM BY PROVIDING CONVENIENCE, PLASTICITY, AND LOW-COST ECONOMIC APPEAL. PRINCIPLES OF REINFORCED CONCRETE DESIGN PROVIDES UNDERGRADUATE STUDENTS WITH THE FUNDAMENTALS OF MECHANICS AND DIRECT OBSERVATION, AS WELL AS THE CONCEPTS REQUIRED TO DESIGN REINFORCED CONCRETE (RC) STRUCTURES, AND APPLIES TO BOTH BUILDING AND BRIDGE STRUCTURAL DESIGN.

REINFORCED CONCRETE JAMES K. WIGHT 2016-03-10 FOR COURSES IN ARCHITECTURE AND CIVIL ENGINEERING. REINFORCED CONCRETE: MECHANICS AND DESIGN USES THE THEORY OF REINFORCED CONCRETE DESIGN TO TEACH STUDENTS THE BASIC SCIENTIFIC AND ARTISTIC PRINCIPLES OF CIVIL ENGINEERING. THE TEXT TAKES A TOPIC OFTEN INTRODUCED AT THE ADVANCED LEVEL AND MAKES IT ACCESSIBLE TO ALL AUDIENCES BY BUILDING A FOUNDATION WITH CORE ENGINEERING CONCEPTS. THE SEVENTH EDITION IS UP-TO-DATE WITH THE LATEST BUILDING CODE FOR STRUCTURAL CONCRETE, GIVING STUDENTS ACCESS TO ACCURATE INFORMATION THAT CAN BE APPLIED OUTSIDE OF THE CLASSROOM. STUDENTS ARE ABLE TO APPLY COMPLICATED ENGINEERING CONCEPTS TO REAL WORLD SCENARIOS WITH IN-TEXT EXAMPLES AND PRACTICE PROBLEMS IN EACH CHAPTER. WITH EXPLANATORY FEATURES THROUGHOUT, THE SEVENTH EDITION MAKES THE REINFORCED CONCRETE DESIGN A THEORY ALL ENGINEERS CAN LEARN FROM.

REINFORCED CONCRETE DESIGN TO EUROCODE 2 GIANDOMENICO TONILO 2017-06-07 THIS TEXTBOOK DESCRIBES THE BASIC MECHANICAL FEATURES OF CONCRETE AND EXPLAINS THE MAIN RESISTANT MECHANISMS ACTIVATED IN THE REINFORCED CONCRETE STRUCTURES AND FOUNDATIONS WHEN SUBJECTED TO CENTRED AND ECCENTRIC AXIAL FORCE, BENDING MOMENT, SHEAR, TORSION AND PRESTRESSING. IT PRESENTS A COMPLETE SET OF LIMIT-STATE DESIGN CRITERIA OF THE MODERN THEORY OF RC INCORPORATING PRINCIPLES AND RULES OF THE FINAL VERSION OF THE OFFICIAL EUROCODE 2. THIS TEXTBOOK EXAMINES METHODOLOGICAL MORE THAN NOTIONAL ASPECTS OF THE PRESENTED TOPICS, FOCUSING ON THE VERIFICATIONS OF ASSUMPTIONS, THE RIGOROUSNESS OF THE ANALYSIS AND THE CONSEQUENT DEGREE OF RELIABILITY OF RESULTS. EACH CHAPTER DEVELOPS AN ORGANIC TOPIC, WHICH IS EVENTUALLY ILLUSTRATED BY EXAMPLES IN EACH FINAL PARAGRAPH CONTAINING THE RELATIVE NUMERICAL APPLICATIONS. THESE PRACTICAL END-OF-CHAPTER APPENDICES AND INTUITIVE FLOW-CHARTS ENSURE A SMOOTH LEARNING EXPERIENCE. THE BOOK STANDS AS AN IDEAL LEARNING RESOURCE FOR STUDENTS OF STRUCTURAL DESIGN AND ANALYSIS COURSES IN CIVIL ENGINEERING, BUILDING CONSTRUCTION AND ARCHITECTURE, AS WELL AS A VALUABLE REFERENCE FOR CONCRETE STRUCTURAL DESIGN PROFESSIONALS IN PRACTICE.

LIMIT STATE DESIGN OF CONCRETE STRUCTURES RAMCHANDRA 2018-10-01 BUREAU OF INDIAN STANDARDS, DELHI MADE LARGE NUMBER OF CHANGES AND ALTERATIONS IN IS: 456-2000, CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE. REALIZING THE NECESSITY AND IMPORTANCE, AUTHORS HAVE UPDATED THE COMPLETE TEXT AND PRESENTED THIS SUBJECT "LIMIT STATE DESIGN OF CONCRETE STRUCTURES". ULTIMATE LIMIT STATE (ULS- CONDITIONS TO BE AVOIDED) AND SERVICEABILITY LIMIT STATE (SLS- LIMITS UNDESIRABLE CRACKS AND DEFLECTIONS) ARE TWO MAIN ESSENTIAL ELEMENTS OF THIS SUBJECT. ULS INCLUDES 'LIMIT STATE OF COLLAPSE IN COMPRESSION, IN FLEXURE, IN SHEAR AND IN TORSION AS SUB ELEMENTS. WHEREAS, SLS INCLUDES LIMIT STATE OF SERVICEABILITY FOR DEFLECTIONS, CRACKING, FATIGUE, DURABILITY AND VIBRATIONS AS SUB-ELEMENTS. FEATURES: (i) TEXT FOR LIFE OF CONCRETE STRUCTURES, FIRE RESISTANCE AND CORROSION. (ii) FOR ALL THOSE, WHO CARRY-OUT THEIR DESIGN USING COMPUTER-PROGRAMME, AUTHORS HAVE GIVEN PROCEDURES (DEVELOPED BY THEM) FOR DETERMINING THE STRESS IN HYSD-STEEL BARS CORRESPONDING TO STRAIN DEVELOPED IN CONCRETE.

ENGINEERING AND DESIGN: STRUCTURAL DESIGN USING THE ROLLER-COMPACTED CONCRETE (RCC) CONSTRUCTION PROCESS 1993 THIS ENGINEER TECHNICAL LETTER (ETL) PROVIDES GUIDANCE FOR DESIGN ENGINEERS CONSIDERING ROLLER-COMPACTED CONCRETE (RCC) AS A COST-SAVING ALTERNATIVE FOR CIVIL WORKS STRUCTURES.

LIMIT STATE DESIGN OF REINFORCED CONCRETE P. C. VARGHESE 2008-09-23 THIS SUBSTANTIALLY REVISED SECOND EDITION TAKES INTO ACCOUNT THE PROVISIONS OF THE REVISED INDIAN CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE IS 456 : 2000. IT ALSO PROVIDES ADDITIONAL DATA ON DETAILING OF STEEL TO MAKE THE BOOK MORE USEFUL TO PRACTICING ENGINEERS. THE CHAPTER ON LIMIT STATE OF DURABILITY FOR ENVIRONMENT HAS BEEN COMPLETELY REVISED AND THE NEW PROVISIONS OF THE CODE SUCH AS THOSE FOR DESIGN FOR SHEAR IN REINFORCED CONCRETE, RULES FOR SHEARING MAIN STEEL IN SLABS, LATERAL STEEL IN COLUMNS, AND STIRRUPS IN BEAMS HAVE BEEN EXPLAINED IN DETAIL IN THE NEW EDITION. THIS COMPREHENSIVE AND SYSTEMATICALLY ORGANIZED BOOK IS INTENDED FOR UNDERGRADUATE STUDENTS OF CIVIL ENGINEERING, COVERING THE FIRST COURSE ON REINFORCED CONCRETE DESIGN AND AS A REFERENCE FOR THE PRACTICING ENGINEERS. BESIDES COVERING IS 456 : 2000, THE BOOK ALSO DEALS WITH THE BRITISH AND US CODES. ADVANCED TOPICS OF IS 456 : 2000 HAVE BEEN DISCUSSED IN THE COMPANION VOLUME ADVANCED REINFORCED CONCRETE DESIGN (ALSO PUBLISHED BY PRENTICE-HALL OF INDIA). THE TWO BOOKS TOGETHER COVER ALL THE TOPICS IN IS 456 : 2000 AND MANY OTHER TOPICS WHICH ARE SO IMPORTANT IN MODERN METHODS OF DESIGN OF REINFORCED CONCRETE.

REINFORCED CONCRETE BEAMS, COLUMNS AND FRAMES JOSTEIN HELLESAND 2013-02-13 THIS BOOK IS FOCUSED ON THE THEORETICAL AND PRACTICAL DESIGN OF REINFORCED CONCRETE BEAMS, COLUMNS AND FRAME STRUCTURES. IT IS BASED ON AN ANALYTICAL APPROACH OF DESIGNING NORMAL REINFORCED CONCRETE STRUCTURAL ELEMENTS THAT ARE COMPATIBLE WITH MOST INTERNATIONAL DESIGN RULES, INCLUDING FOR INSTANCE THE EUROPEAN DESIGN RULES – EUROCODE 2 – FOR REINFORCED CONCRETE STRUCTURES. THE BOOK TRIES TO DISTINGUISH BETWEEN WHAT BELONGS TO THE STRUCTURAL DESIGN PHILOSOPHY OF SUCH

STRUCTURAL ELEMENTS (RELATED TO STRENGTH OF MATERIALS ARGUMENTS) AND WHAT BELONGS TO THE DESIGN RULE ASPECTS ASSOCIATED WITH SPECIFIC CHARACTERISTIC DATA (FOR THE MATERIAL OR LOADING PARAMETERS). A PREVIOUS BOOK, ENTITLED REINFORCED CONCRETE BEAMS, COLUMNS AND FRAMES – MECHANICS AND DESIGN, DEALS WITH THE FUNDAMENTAL ASPECTS OF THE MECHANICS AND DESIGN OF REINFORCED CONCRETE IN GENERAL, BOTH RELATED TO THE SERVICEABILITY LIMIT STATE (SLS) AND THE ULTIMATE LIMIT STATE (ULS), WHEREAS THE CURRENT BOOK DEALS WITH MORE ADVANCED ULS ASPECTS, ALONG WITH INSTABILITY AND SECOND-ORDER ANALYSIS ASPECTS. SOME RECENT RESEARCH RESULTS INCLUDING THE USE OF NON-LOCAL MECHANICS ARE ALSO PRESENTED. THIS BOOK IS AIMED AT MASTERS-LEVEL STUDENTS, ENGINEERS, RESEARCHERS AND TEACHERS IN THE FIELD OF REINFORCED CONCRETE DESIGN. MOST OF THE BOOKS IN THIS AREA ARE VERY PRACTICAL OR CODE-ORIENTED, WHEREAS THIS BOOK IS MORE THEORETICALLY BASED, USING RIGOROUS MATHEMATICS AND MECHANICS TOOLS. CONTENTS 1. ADVANCED DESIGN AT ULTIMATE LIMIT STATE (ULS). 2. SLENDER COMPRESSION MEMBERS – MECHANICS AND DESIGN. 3. APPROXIMATE ANALYSIS METHODS. APPENDIX 1. CARDANO’S METHOD. APPENDIX 2. STEEL REINFORCEMENT TABLE. ABOUT THE AUTHORS JOSTEIN HELLESAND HAS BEEN PROFESSOR OF STRUCTURAL MECHANICS AT THE UNIVERSITY OF OSLO, NORWAY SINCE JANUARY 1988. HIS CONTRIBUTION TO THE FIELD OF STABILITY HAS BEEN RECOGNIZED AND MAGNIFIED BY MANY HIGH-QUALITY PAPERS IN FAMOUS INTERNATIONAL JOURNALS SUCH AS ENGINEERING STRUCTURES, THIN-WALLED STRUCTURES, JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH AND JOURNAL OF STRUCTURAL ENGINEERING. NOËL CHALLAMEL IS PROFESSOR IN CIVIL ENGINEERING AT UBS, UNIVERSITY OF SOUTH BRITTANY IN FRANCE AND CHAIRMAN OF THE EMI-ASCE STABILITY COMMITTEE. HIS CONTRIBUTIONS MAINLY CONCERN THE DYNAMICS, STABILITY AND INELASTIC BEHAVIOR OF STRUCTURAL COMPONENTS, WITH SPECIAL EMPHASIS ON CONTINUUM DAMAGE MECHANICS (MORE THAN 70 PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS). CHARLES CASANDJIAN WAS FORMERLY ASSOCIATE PROFESSOR AT INSA (FRENCH NATIONAL INSTITUTE OF APPLIED SCIENCES), RENNES, FRANCE AND THE CHAIRMAN OF THE COURSE ON REINFORCED CONCRETE DESIGN. HE HAS PUBLISHED WORK ON THE MECHANICS OF CONCRETE AND IS ALSO INVOLVED IN CREATING A WEB EXPERIENCE FOR TEACHING REINFORCED CONCRETE DESIGN – BA-CORTEX. CHRISTOPHE LANOS IS PROFESSOR IN CIVIL ENGINEERING AT THE UNIVERSITY OF RENNES 1 IN FRANCE. HE HAS MAINLY PUBLISHED WORK ON THE MECHANICS OF CONCRETE, AS WELL AS OTHER RELATED SUBJECTS. HE IS ALSO INVOLVED IN CREATING A WEB EXPERIENCE FOR TEACHING REINFORCED CONCRETE DESIGN – BA-CORTEX.

REINFORCED CONCRETE STRUCTURES: ANALYSIS AND DESIGN DAVID D. E. E. FANELLA 2010-12-06 A PRACTICAL GUIDE TO REINFORCED CONCRETE STRUCTURE ANALYSIS AND DESIGN REINFORCED CONCRETE STRUCTURES EXPLAINS THE UNDERLYING PRINCIPLES OF REINFORCED CONCRETE DESIGN AND COVERS THE ANALYSIS, DESIGN, AND DETAILING REQUIREMENTS IN THE 2008 AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY AND THE 2009 INTERNATIONAL CODE COUNCIL (ICC) INTERNATIONAL BUILDING CODE (IBC). THIS AUTHORITATIVE RESOURCE DISCUSSES REINFORCED CONCRETE MEMBERS AND PROVIDES TECHNIQUES FOR SIZING THE CROSS SECTION, CALCULATING THE REQUIRED AMOUNT OF REINFORCEMENT, AND DETAILING THE REINFORCEMENT. DESIGN PROCEDURES AND FLOWCHARTS GUIDE YOU THROUGH CODE REQUIREMENTS, AND WORKED-OUT EXAMPLES DEMONSTRATE THE PROPER APPLICATION OF THE DESIGN PROVISIONS. COVERAGE INCLUDES: MECHANICS OF REINFORCED CONCRETE MATERIAL PROPERTIES OF CONCRETE AND REINFORCING STEEL CONSIDERATIONS FOR ANALYSIS AND DESIGN OF REINFORCED CONCRETE STRUCTURES REQUIREMENTS FOR STRENGTH AND SERVICEABILITY PRINCIPLES OF THE STRENGTH DESIGN METHOD DESIGN AND DETAILING REQUIREMENTS FOR BEAMS, ONE-WAY SLABS, TWO-WAY SLABS, COLUMNS, WALLS, AND FOUNDATIONS

REINFORCED CONCRETE STRUCTURES: ANALYSIS AND DESIGN, SECOND EDITION DAVID FANELLA 2015-09-16 PUBLISHER’S NOTE: PRODUCTS PURCHASED FROM THIRD PARTY SELLERS ARE NOT GUARANTEED BY THE PUBLISHER FOR QUALITY, AUTHENTICITY, OR ACCESS TO ANY ONLINE ENTITLEMENTS INCLUDED WITH THE PRODUCT. A FULLY REVISED GUIDE TO THE DESIGN AND ANALYSIS OF REINFORCED CONCRETE STRUCTURES ACCORDING TO THE 2014 EDITION OF ACI 318 THIS PRACTICAL RESOURCE OFFERS CONCISE EXPLANATIONS OF REINFORCED CONCRETE DESIGN PRINCIPLES AND TEACHES SAFE AND COST-EFFECTIVE ENGINEERING AND CONSTRUCTION TECHNIQUES. REINFORCED CONCRETE STRUCTURES: ANALYSIS AND DESIGN, SECOND EDITION, HAS BEEN THOROUGHLY UPDATED TO REFLECT THE LATEST REQUIREMENTS IN BOTH THE 2014 ACI 318 STRUCTURAL CONCRETE CODE AND THE 2015 INTERNATIONAL BUILDING CODE®. EXAMPLES, PROCEDURES, AND FLOWCHARTS ILLUSTRATE COMPLIANCE WITH EACH PROVISION. THIS COMPREHENSIVE GUIDE FEATURES NEW IN-DEPTH COVERAGE OF ACI EARTHQUAKE DESIGN REQUIREMENTS. SI UNITS ARE NOW INCLUDED THROUGHOUT ALL OF THE CHAPTERS. REINFORCED CONCRETE STRUCTURES: ANALYSIS AND DESIGN, SECOND EDITION, COVERS: MATERIAL PROPERTIES OF CONCRETE AND REINFORCING STEEL

REINFORCED CONCRETE DESIGN: PRINCIPLES AND PRACTICE RAJU N. KRISHNA 2007 THIS BOOK SYSTEMATICALLY EXPLAINS THE BASIC PRINCIPLES AND TECHNIQUES INVOLVED IN THE DESIGN OF REINFORCED CONCRETE STRUCTURES. IT EXHAUSTIVELY COVERS THE FIRST COURSE ON THE SUBJECT AT B.E./ B.TECH LEVEL. IMPORTANT FEATURES: * EXPOSITION IS BASED ON THE LATEST INDIAN STANDARD CODE IS: 456-2000. * LIMIT STATE METHOD EMPHASIZED THROUGHOUT THE BOOK. * WORKING STRESS METHOD ALSO EXPLAINED. * DETAILING ASPECTS OF REINFORCEMENT HIGHLIGHTED. * INCORPORATES EARTHQUAKE RESISTANT

DESIGN. * INCLUDES A LARGE NUMBER OF SOLVED EXAMPLES, PRACTICE PROBLEMS AND ILLUSTRATIONS. THE BOOK WOULD SERVE AS A COMPREHENSIVE TEXT FOR UNDERGRADUATE CIVIL ENGINEERING STUDENTS. PRACTISING ENGINEERS WOULD ALSO FIND IT A VALUABLE REFERENCE SOURCE.

PRACTICAL DESIGN OF REINFORCED CONCRETE STRUCTURES GHOSH KARUNA MOY 2010

DESIGN OF REINFORCED CONCRETE STRUCTURES M. L. GAMBHIR 2008-02-16 DESIGNED PRIMARILY AS A TEXT FOR THE UNDERGRADUATE STUDENTS OF CIVIL ENGINEERING, THIS COMPACT AND WELL-ORGANIZED TEXT PRESENTS ALL THE BASIC TOPICS OF REINFORCED CONCRETE DESIGN IN A COMPREHENSIVE MANNER. THE TEXT CONFORMS TO THE LIMIT STATES DESIGN METHOD AS GIVEN IN THE LATEST REVISION OF INDIAN CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE, IS: 456 (2000). THIS BOOK COVERS THE APPLICATIONS OF DESIGN CONCEPTS AND PROVIDES A WEALTH OF STATE-OF-THE-ART INFORMATION ON DESIGN ASPECTS OF WIDE VARIETY OF REINFORCED CONCRETE STRUCTURES. HOWEVER, THE EMPHASIS IS ON MODERN DESIGN APPROACH. THE TEXT ATTEMPTS TO:

- PRESENT SIMPLE, EFFICIENT AND SYSTEMATIC PROCEDURES FOR EVOLVING DESIGN OF CONCRETE STRUCTURES.
- MAKE AVAILABLE A LARGE AMOUNT OF FIELD TESTED PRACTICAL DATA IN THE APPENDICES.
- PROVIDE TIME SAVING ANALYSIS AND DESIGN AIDS IN THE FORM OF TABLES AND CHARTS.
- COVER A LARGE NUMBER OF WORKED-OUT PRACTICAL DESIGN EXAMPLES AND PROBLEMS IN EACH CHAPTER.
- EMPHASIZE ON DEVELOPMENT OF STRUCTURAL SENSE NEEDED FOR PROPER DETAILING OF STEEL FOR INTEGRATED ACTION IN VARIOUS PARTS OF THE STRUCTURE.

BESIDES STUDENTS, PRACTICING ENGINEERS AND ARCHITECTS WOULD FIND THIS TEXT EXTREMELY USEFUL.

DESIGN OF REINFORCED CONCRETE STRUCTURES N. SUBRAMANIAN 2014-01-16 THIS BOOK PROVIDES AN EXTENSIVE COVERAGE OF THE DESIGN OF REINFORCED CONCRETE STRUCTURES IN ACCORDANCE WITH THE CURRENT INDIAN CODE OF PRACTICE (IS 456: 2000). AS SOME OF THE INDIAN CODE PROVISIONS ARE OUTDATED, THE AMERICAN CODE PROVISIONS ARE PROVIDED, WHEREVER NECESSARY. IN ADDITION, AN ATTEMPT IS MADE TO INTEGRATE THE PROVISIONS OF IS 456 WITH EARTHQUAKE CODE (IS 13920), AS MORE THAN 60% OF INDIA FALLS UNDER MODERATE OR SEVERE EARTHQUAKE ZONES. THE TEXT IS BASED ON THE LIMIT STATE APPROACH TO DESIGN AND COVERS AREAS SUCH AS THE PROPERTIES OF CONCRETE, DESIGN OF VARIOUS STRUCTURAL ELEMENTS SUCH AS COMPRESSION AND TENSION MEMBERS, BEAMS & SLABS, AND DESIGN FOR FLEXURE, SHEAR TORSION, UNI-AXIAL AND BIAXIAL BENDING AND INTERACTION OF THESE FORCES. EACH CHAPTER FEATURES SOLVED EXAMPLES, REVIEW QUESTIONS, AND PRACTICE PROBLEMS AS WELL AS AMPLE ILLUSTRATIONS THAT SUPPLEMENT THE TEXT. AN EXHAUSTIVE LIST OF REFERENCES AS WELL AS APPENDICES ON STRUT-AND-TIE-METHOD, PROPERTIES OF SOILS, AND PRACTICAL TIPS ADD VALUE TO THE RICH CONTENTS OF BOOK.

ADVANCED MATERIALS AND TECHNIQUES FOR REINFORCED CONCRETE STRUCTURES MOHAMED ABDALLAH EL-REEDY PH.D 2009-06-26 FROM CHINA TO KUALA LUMPUR TO DUBAI TO DOWNTOWN NEW YORK, AMAZING BUILDINGS AND UNUSUAL STRUCTURES CREATE ATTENTION WITH THE UNIQUENESS OF THEIR DESIGN. WHILE ATTRACTIVE TO DEVELOPERS AND INVESTORS, THE SAFE AND ECONOMIC DESIGN AND CONSTRUCTION OF REINFORCED CONCRETE BUILDINGS CAN SOMETIMES BE PROBLEMATIC. ADVANCED MATERIALS AND TECHNIQUES FOR REIN

DESIGN OF CONCRETE STRUCTURES J. N. BANDYOPADHYAY 2008-07-07 THIS TEXT PRIMARILY ANALYSES DIFFERENT METHODS OF DESIGN OF CONCRETE STRUCTURES AS PER IS 456: 2000 (PLAIN AND REINFORCED CONCRETE—INDIAN STANDARD CODE OF PRACTICE, 4TH REVISION, BUREAU OF INDIAN STANDARDS). IT GIVES GREATER EMPHASIS ON THE LIMIT STATE METHOD SO AS TO ILLUSTRATE THE ACCEPTABLE LIMITS FOR THE SAFETY AND SERVICEABILITY REQUIREMENTS OF STRUCTURES. BESIDES DEALING WITH YIELD LINE ANALYSIS FOR SLABS, THE BOOK EXPLAINS THE WORKING STRESS METHOD AND ITS USE FOR DESIGNING REINFORCED CONCRETE TENSION MEMBERS, THEORY OF REDISTRIBUTION OF MOMENTS, AND EARTHQUAKE RESISTANT DESIGN OF STRUCTURES. THIS WELL-STRUCTURED BOOK DEVELOPS AN EFFECTIVE UNDERSTANDING OF THE THEORY THROUGH NUMEROUS SOLVED PROBLEMS, PRESENTING STEP-BY-STEP CALCULATIONS. THE USE OF SP-16 (DESIGN AIDS FOR REINFORCED CONCRETE TO IS: 456-1978) HAS ALSO BEEN EXPLAINED IN SOLVING THE PROBLEMS. KEY FEATURES : INSTRUCTIONAL OBJECTIVES AT THE BEGINNING OF THE CHAPTER HIGHLIGHT IMPORTANT CONCEPTS. SUMMARY AT THE END OF THE CHAPTER TO HELP STUDENT REVISE KEY POINTS. SIXTY-NINE SOLVED ILLUSTRATIVE EXAMPLES PRESENTING STEP-BY-STEP CALCULATIONS. CHAPTER-END EXERCISES TO TEST STUDENT'S UNDERSTANDING OF THE CONCEPTS. FORTY TESTS TO ENABLE STUDENTS TO GAUGE THEIR PREPAREDNESS FOR ACTUAL EXAMS. THIS COMPREHENSIVE TEXT IS SUITABLE FOR UNDERGRADUATE STUDENTS OF CIVIL ENGINEERING AND ARCHITECTURE. IT CAN ALSO BE USEFUL TO PROFESSIONAL ENGINEERS.

DESIGN OF PRESTRESSED CONCRETE NILSON 1987-04-13

DESIGN OF REINFORCED CONCRETE JACK C. MCCORMAC 2005 PUBLISHER DESCRIPTION

PRINCIPLES OF REINFORCED CONCRETE ZHENHAI GUO 2014-07-17 PRINCIPLE OF REINFORCED CONCRETE INTRODUCES THE MAIN PROPERTIES OF STRUCTURAL CONCRETE AND ITS MECHANICAL BEHAVIOR UNDER VARIOUS CONDITIONS AS WELL AS ALL ASPECTS OF THE COMBINED FUNCTION OF REINFORCEMENT AND CONCRETE. BASED ON THE EXPERIMENTAL INVESTIGATION, THE VARIATION REGULARITY OF MECHANICAL BEHAVIOR, WORKING MECHANISM, AND CALCULATION METHOD ARE PRESENTED FOR THE STRUCTURAL MEMBER UNDER VARIOUS INTERNAL FORCES. AFTER EXAMINING THE BASIC PRINCIPLE AND ANALYSIS METHOD OF REINFORCED CONCRETE, THE BOOK COVERS SOME EXTREME CIRCUMSTANCES, INCLUDING FATIGUE LOAD, EARTHQUAKE, EXPLOSION, HIGH TEMPERATURE (FIRE ACCIDENT), AND DURABILITY DAMAGE, AND THE SPECIAL RESPONSES AND ANALYSIS METHODS OF ITS MEMBER UNDER THESE CONDITIONS. THIS WORK IS VALUABLE AS A TEXTBOOK FOR POST-GRADUATES, AND CAN BE USED AS A REFERENCE FOR UNIVERSITY TEACHERS AND UNDER-GRADUATES IN THE STRUCTURAL ENGINEERING FIELD. IT IS ALSO USEFUL FOR STRUCTURAL ENGINEERS ENGAGED IN SCIENTIFIC RESEARCH, DESIGN, OR CONSTRUCTION. FOCUSES ON THE PRINCIPLES OF REINFORCED CONCRETE, PROVIDING PROFESSIONAL AND ACADEMIC READERS WITH A SINGLE VOLUME REFERENCE EXPERIMENTAL DATA ENABLES READERS TO MAKE FULL USE OF THE THEORY PRESENTED THE MECHANICAL BEHAVIOR OF BOTH CONCRETE AND REINFORCEMENT MATERIALS, PLUS THE COMBINED FUNCTION OF BOTH ARE COVERED, ENABLING READERS TO UNDERSTAND THE BEHAVIORS OF REINFORCED CONCRETE STRUCTURES AND THEIR MEMBERS COVERS BEHAVIOR OF THE MATERIALS AND MEMBERS UNDER NORMAL AND EXTREME CONDITIONS

CONCRETE CONSTRUCTION ENGINEERING HANDBOOK EDWARD G. NAWY 2008-06-24 THE FIRST EDITION OF THIS COMPREHENSIVE WORK QUICKLY FILLED THE NEED FOR AN IN-DEPTH HANDBOOK ON CONCRETE CONSTRUCTION ENGINEERING AND TECHNOLOGY. LIVING UP TO THE STANDARD SET BY ITS BESTSELLING PREDECESSOR, THIS SECOND EDITION OF THE CONCRETE CONSTRUCTION ENGINEERING HANDBOOK COVERS THE ENTIRE RANGE OF ISSUES PERTAINING TO THE CONSTRUCTION

PRACTICAL DESIGN OF REINFORCED CONCRETE BUILDINGS SYED MEHDI ASHRAF 2017 THIS BOOK WILL PROVIDE COMPREHENSIVE, PRACTICAL KNOWLEDGE FOR THE DESIGN OF REINFORCED CONCRETE BUILDINGS. THE APPROACH WILL BE UNIQUE AS IT WILL FOCUS PRIMARILY ON THE DESIGN OF VARIOUS STRUCTURES AND STRUCTURAL ELEMENTS AS DONE IN DESIGN OFFICES WITH AN EMPHASIS ON COMPLIANCE WITH THE RELEVANT CODES. IT WILL GIVE AN OVERVIEW OF THE INTEGRATED DESIGN OF BUILDINGS AND EXPLAIN THE DESIGN OF VARIOUS ELEMENTS SUCH AS SLABS, BEAMS, COLUMNS, WALLS, AND FOOTINGS. IT WILL BE WRITTEN IN EASY-TO-USE FORMAT AND REFER TO ALL THE LATEST RELEVANT AMERICAN CODES OF PRACTICE (IBC AND ASCE) AT EVERY STAGE. THE BOOK WILL COMPEL USERS TO THINK CRITICALLY TO ENHANCE THEIR INTUITIVE DESIGN CAPABILITIES.

REINFORCED CONCRETE STRUCTURES ROBERT PARK 1991-01-16 SETS OUT BASIC THEORY FOR THE BEHAVIOR OF REINFORCED CONCRETE STRUCTURAL ELEMENTS AND STRUCTURES IN CONSIDERABLE DEPTH. EMPHASIZES BEHAVIOR AT THE ULTIMATE LOAD, AND, IN PARTICULAR, ASPECTS OF THE SEISMIC DESIGN OF REINFORCED CONCRETE STRUCTURES. BASED ON AMERICAN PRACTICE, BUT ALSO EXAMINES EUROPEAN PRACTICE.

AN INTRODUCTION TO DESIGN AND CONSTRUCTION OF ROLLER COMPACTED CONCRETE J. PAUL GUYER, P.E., R.A. 2020-11-28 INTRODUCTORY TECHNICAL GUIDANCE FOR CIVIL ENGINEERS AND CONSTRUCTION MANAGERS INTERESTED IN ROLLER COMPACTED CONCRETE DESIGN AND CONSTRUCTION FOR STREETS AND HIGHWAYS, DAMS AND OTHER INFRASTRUCTURE. HERE IS WHAT IS DISCUSSED: 1. GENERAL DESIGN CONSIDERATIONS 2. SPECIAL STRUCTURAL DESIGN REQUIREMENTS FOR RCC GRAVITY DAMS 3. SEEPAGE CONSIDERATIONS 4. LAYOUT OF RCC CONSTRUCTION OPERATIONS 5. TESTING PROGRAMS 6. FACING SYSTEMS AND TECHNIQUES 7. LIFT SURFACES 8. CONTROL OF CRACKING 9. GALLERIES FOR GROUTING AND DRAINAGE 10. OUTLET WORKS 11. SPILLWAYS 12. CONSTRUCTION METHODS AND EQUIPMENT.

REINFORCED CONCRETE JAMES GRIERSON MACGREGOR 1997 BASED ON THE 1995 EDITION OF THE AMERICAN CONCRETE INSTITUTE BUILDING CODE, THIS TEXT EXPLAINS THE THEORY AND PRACTICE OF REINFORCED CONCRETE DESIGN IN A SYSTEMATIC AND CLEAR FASHION, WITH AN ABUNDANCE OF STEP-BY-STEP WORKED EXAMPLES, ILLUSTRATIONS, AND PHOTOGRAPHS. THE FOCUS IS ON PREPARING STUDENTS TO MAKE THE MANY JUDGMENT DECISIONS REQUIRED IN REINFORCED CONCRETE DESIGN, AND REFLECTS THE AUTHOR'S EXPERIENCE AS BOTH A TEACHER OF REINFORCED CONCRETE DESIGN AND AS A MEMBER OF VARIOUS CODE COMMITTEES. THIS EDITION PROVIDES NEW, REVISED AND EXPANDED COVERAGE OF THE FOLLOWING TOPICS: CORE TESTING AND DURABILITY; SHRINKAGE AND CREEP; BASES THE MAXIMUM STEEL RATIO AND THE VALUE OF THE FACTOR ON APPENDIX B OF ACI 318-95; COMPOSITE CONCRETE BEAMS; STRUT-AND-TIE MODELS; DAPPED ENDS AND T-BEAM FLANGES. IT ALSO EXPANDS THE DISCUSSION OF STMs AND ADDS NEW EXAMPLES IN SI UNITS.

PRINCIPLES OF STRUCTURAL DESIGN RAM S. GUPTA 2019-06-17 TIMBER, STEEL, AND CONCRETE ARE COMMON ENGINEERING MATERIALS USED IN STRUCTURAL DESIGN. MATERIAL CHOICE DEPENDS UPON THE TYPE OF STRUCTURE, AVAILABILITY OF MATERIAL, AND THE PREFERENCE OF THE DESIGNER. THE DESIGN PRACTICES THE CODE REQUIREMENTS OF EACH MATERIAL ARE VERY DIFFERENT. IN

THIS UPDATED EDITION, THE ELEMENTAL DESIGNS OF INDIVIDUAL COMPONENTS OF EACH MATERIAL ARE PRESENTED, TOGETHER WITH THEORY OF STRUCTURES ESSENTIAL FOR THE DESIGN. NUMEROUS EXAMPLES OF COMPLETE STRUCTURAL DESIGNS HAVE BEEN INCLUDED. A COMPREHENSIVE DATABASE COMPRISING MATERIALS PROPERTIES, SECTION PROPERTIES, SPECIFICATIONS, AND DESIGN AIDS, HAS BEEN INCLUDED TO MAKE THIS ESSENTIAL READING.

SEISMIC DESIGN OF REINFORCED CONCRETE BUILDINGS JACK MOEHLE 2014-10-06 COMPLETE COVERAGE OF EARTHQUAKE-RESISTANT CONCRETE BUILDING DESIGN WRITTEN BY A RENOWNED SEISMIC ENGINEERING EXPERT, THIS AUTHORITATIVE RESOURCE DISCUSSES THE THEORY AND PRACTICE FOR THE DESIGN AND EVALUATION OF EARTHQUAKE-RESISTING REINFORCED CONCRETE BUILDINGS. THE BOOK ADDRESSES THE BEHAVIOR OF REINFORCED CONCRETE MATERIALS, COMPONENTS, AND SYSTEMS SUBJECTED TO ROUTINE AND EXTREME LOADS, WITH AN EMPHASIS ON RESPONSE TO EARTHQUAKE LOADING. DESIGN METHODS, BOTH AT A BASIC LEVEL AS REQUIRED BY CURRENT BUILDING CODES AND AT AN ADVANCED LEVEL NEEDED FOR SPECIAL PROBLEMS SUCH AS SEISMIC PERFORMANCE ASSESSMENT, ARE DESCRIBED. DATA AND MODELS USEFUL FOR ANALYZING REINFORCED CONCRETE STRUCTURES AS WELL AS NUMEROUS ILLUSTRATIONS, TABLES, AND EQUATIONS ARE INCLUDED IN THIS DETAILED REFERENCE. SEISMIC DESIGN OF REINFORCED CONCRETE BUILDINGS COVERS: SEISMIC DESIGN AND PERFORMANCE VERIFICATION STEEL REINFORCEMENT CONCRETE CONFINED CONCRETE AXIALLY LOADED MEMBERS MOMENT AND AXIAL FORCE SHEAR IN BEAMS, COLUMNS, AND WALLS DEVELOPMENT AND ANCHORAGE BEAM-COLUMN CONNECTIONS SLAB-COLUMN AND SLAB-WALL CONNECTIONS SEISMIC DESIGN OVERVIEW SPECIAL MOMENT FRAMES SPECIAL STRUCTURAL WALLS GRAVITY FRAMING DIAPHRAGMS AND COLLECTORS FOUNDATIONS

REINFORCED CONCRETE B.S. CHOO 2018-10-08 THIS NEW EDITION OF A HIGHLY PRACTICAL TEXT GIVES A DETAILED PRESENTATION OF THE DESIGN OF COMMON REINFORCED CONCRETE STRUCTURES TO LIMIT STATE THEORY IN ACCORDANCE WITH BS 8110.

DESIGN OF R.C.C. BUILDINGS USING STAAD PRO V8i WITH INDIAN EXAMPLES T S SARMA 2017-12-16 THIS BOOK IS INTENDED TO GIVE A BASIC KNOWLEDGE OF DESIGN OF R.C.C BUILDINGS USING STAAD PRO V8i, TO THOSE WHO ALREADY HAVE SOME KNOWLEDGE IN WORKING IN THIS SOFTWARE. THIS IS HIGHLY USEFUL FOR CIVIL ENGINEERING STUDENTS WHO WANT TO DEVELOP DESIGN SKILLS IN R.C.C. BY USING STAAD PRO. INDIAN CODE REFERENCES WERE GIVEN WHERE EVER NECESSARY AND MANY SNAPSHOTS OF WORKING EXAMPLE ARE INSERTED IN ALMOST EVERY PAGE OF THE BOOK SO THAT THE READER CAN UNDERSTAND EASILY. THIS BOOK IS HIGHLY SUITABLE FOR INDIAN CIVIL ENGINEERS, AS ALL THE EXAMPLES ARE IN INDIAN CODE METHODS. THIS WILL GREATLY BENEFIT PRACTICING ENGINEERS AND STUDENTS IN INDIA AS THIS IS THE FIRST DETAILED BOOK ON R.C.C BUILDING DESIGN USING STAAD PRO, WITH INDIAN EXAMPLES. STATIC METHOD AND DYNAMIC METHOD OF ANALYSIS HAS BEEN EXPLAINED BY TAKING THE SAME EXAMPLE PROBLEM, SO THAT THE READER CAN UNDERSTAND THE DIFFERENCES IN THOSE METHODS.

DESIGN OF WIND AND EARTHQUAKE RESISTANT REINFORCED CONCRETE BUILDINGS SOMNATH GHOSH 2021-06-14 DESIGN OF WIND AND EARTHQUAKE RESISTANT REINFORCED CONCRETE BUILDINGS EXPLAINS WIND AND SEISMIC DESIGN ISSUES OF RCC BUILDINGS IN BRIEF AND PROVIDES DESIGN EXAMPLES BASED ON RECOMMENDATIONS OF LATEST IS CODES ESSENTIAL FOR INDUSTRIAL DESIGN. INTRICATE ISSUES OF RCC DESIGN ARE DISCUSSED WHICH ARE SUPPLEMENTED BY REAL-LIFE EXAMPLES. GUIDELINES ARE PRESENTED FOR EVALUATING THE ACCEPTABILITY OF WIND-INDUCED MOTIONS OF TALL BUILDINGS. DESIGN METHODOLOGIES FOR STRUCTURES TO DEFORM WELL BEYOND THEIR ELASTIC LIMITS, WHICH IS ESSENTIAL UNDER SEISMIC EXCITATION, HAVE BEEN DISCUSSED IN DETAIL. COMPARATIVE DISCUSSION INCLUDING TYPICAL DESIGN EXAMPLES USING RECENT BRITISH, EURO AND AMERICAN CODES IS ALSO INCLUDED. FEATURES: EXPLAINS WIND AND EARTHQUAKE RESISTANT DESIGN ISSUES, BALANCING THEORETICAL ASPECTS AND DESIGN IMPLICATIONS, IN DETAIL DISCUSSES ISSUES FOR DESIGNING THE WIND AND EARTHQUAKE RESISTANT RCC STRUCTURES PROVIDES COMPREHENSIVE UNDERSTANDING, ANALYSIS, DESIGN AND DETAILING OF THE STRUCTURES INCLUDES A DETAILED DISCUSSION ON IS CODE RELATED TO WIND AND EARTHQUAKE RESISTANT DESIGN AND ITS COMPARISON WITH EURO, BRITISH AND AMERICAN CODES CONTAINS ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS THE BOOK IS AIMED AT RESEARCHERS, PROFESSIONALS, GRADUATE STUDENTS IN WIND AND EARTHQUAKE ENGINEERING, DESIGN OF RCC STRUCTURES, MODELLING AND ANALYSIS OF STRUCTURES, CIVIL/INFRASTRUCTURE ENGINEERING.

STRUCTURAL DESIGN AND DRAWING N. KRISHNA RAJU 2005 THIS BOOK PROVIDES, IN SI UNITS, AN INTEGRATED DESIGN APPROACH TO VARIOUS REINFORCED CONCRETE AND STEEL STRUCTURES, WITH PARTICULAR EMPHASIS ON THE LOGICAL PRESENTATION OF STEPS CONFORMING TO INDIAN STANDARD CODES. DETAILED DRAWINGS ALONG WITH CAREFULLY CHOSEN EXAMPLES, MANY OF THEM FROM EXAMINATION PAPERS, GREATLY FACILITATE THE UNDERSTANDING OF THE SUBJECT.

DESIGN OF REINFORCED CONCRETE STRUCTURES ALAN WILLIAMS 2004 HERE IS A COMPREHENSIVE GUIDE AND REFERENCE TO ASSIST CIVIL ENGINEERS PREPARING FOR THE STRUCTURAL ENGINEER EXAMINATION. IT OFFERS 350 PAGES OF TEXT AND 70 DESIGN PROBLEMS WITH COMPLETE STEP-BY-STEP SOLUTIONS. TOPICS COVERED: MATERIALS FOR REINFORCED CONCRETE; LIMIT STATE

PRINCIPLES; FLEXURE OF REINFORCED CONCRETE BEAMS; SHEAR AND TORSION OF CONCRETE BEAMS; BOND AND ANCHORAGE; DESIGN OF REINFORCED CONCRETE COLUMNS; DESIGN OF REINFORCED CONCRETE SLABS AND FOOTINGS; RETAINING WALLS; AND PILED FOUNDATIONS. AN INDEX IS PROVIDED.

ADVANCE R.C.C. DESIGN (R.C.C. VOLUME-I) S. S. BHAVIKATTI 2008-01-01

ADVANCED REINFORCED CONCRETE DESIGN P. C. VARGHESE 2009-01-09 INTENDED AS A COMPANION VOLUME TO THE AUTHOR'S LIMIT STATE DESIGN OF REINFORCED CONCRETE (PUBLISHED BY PRENTICE-HALL OF INDIA), THE SECOND EDITION OF THIS COMPREHENSIVE AND SYSTEMATICALLY ORGANIZED TEXT BUILDS ON THE STRENGTH OF THE FIRST EDITION, CONTINUING TO PROVIDE A CLEAR AND MASTERLY EXPOSITION OF THE FUNDAMENTALS OF THE THEORY OF CONCRETE DESIGN. THE TEXT MEETS THE TWIN OBJECTIVE OF CATERING TO THE NEEDS OF THE POSTGRADUATE STUDENTS OF CIVIL ENGINEERING AND THE NEEDS OF THE PRACTISING CIVIL ENGINEERS AS IT FOCUSES ALSO ON THE PRACTICES FOLLOWED BY THE INDUSTRY. THIS TEXT, ALONG WITH LIMIT STATE DESIGN, COVERS THE ENTIRE DESIGN PRACTICE OF REVISED CODE IS456 (2000). IN ADDITION, IT ANALYZES THE PROCEDURES SPECIFIED IN MANY OTHER BIS CODES SUCH AS THOSE ON WINDS, EARTHQUAKES, AND DUCTILE DETAILING. WHAT'S NEW TO THIS EDITION CHAPTER 18 ON EARTHQUAKE FORCES AND STRUCTURAL RESPONSE OF FRAMED BUILDINGS HAS BEEN COMPLETELY REVISED AND UPDATED SO AS TO CONFORM TO THE LATEST I.S. CODES 1893 (2002) ENTITLED CRITERIA FOR EARTHQUAKE RESISTANT DESIGN OF STRUCTURES (PART I - FIFTH REVISION). CHAPTERS 19 AND 21 WHICH TOO DEAL WITH EARTHQUAKE DESIGN HAVE BEEN REVISED. A SUMMARY OF ELEMENTARY DESIGN OF REINFORCED CONCRETE MEMBERS IS ADDED AS APPENDIX. VALUABLE TABLES AND CHARTS ARE PRESENTED TO HELP STUDENTS AND PRACTISING DESIGNERS TO ARRIVE AT A SPEEDY ESTIMATE OF THE STEEL REQUIREMENTS IN SLABS, BEAMS, COLUMNS AND FOOTINGS OF ORDINARY BUILDINGS.

REINFORCED CONCRETE DESIGN KENNETH LEET 1982 THE NEW EDITION OF REINFORCED CONCRETE DESIGN INCLUDES THE LATEST TECHNICAL ADVANCES, INCLUDING THE 1995 AMERICAN CONCRETE INSTITUTE BUILDING CODE. REVIEW QUESTIONS AND PROBLEM SETS AT THE END OF EVERY CHAPTER ARE IDENTICAL TO THOSE YOUR CIVIL ENGINEERING UNDERGRADUATES WILL ENCOUNTER IN PRACTICE.

STRUCTURAL CONCRETE M. NADIM HASSOUN 2012-05-01 EMPHASIZING A CONCEPTUAL UNDERSTANDING OF CONCRETE DESIGN AND ANALYSIS, THIS REVISED AND UPDATED EDITION BUILDS THE STUDENT'S UNDERSTANDING BY PRESENTING DESIGN METHODS IN AN EASY TO UNDERSTAND MANNER SUPPORTED WITH THE USE OF NUMEROUS EXAMPLES AND PROBLEMS. WRITTEN IN INTUITIVE, EASY-TO-UNDERSTAND LANGUAGE, IT INCLUDES SI UNIT EXAMPLES IN ALL CHAPTERS, EQUIVALENT CONVERSION FACTORS FROM US CUSTOMARY TO SI THROUGHOUT THE BOOK, AND SI UNIT DESIGN TABLES. IN ADDITION, THE COVERAGE HAS BEEN COMPLETELY UPDATED TO REFLECT THE LATEST ACI 318-11 CODE.

DESIGN OF CONCRETE STRUCTURES GEORGE WINTER 1986 DESIGNED FOR COURSES IN THE DESIGN OF CONCRETE STRUCTURES OR REINFORCED CONCRETE DESIGN, THIS TEXT AIMS TO HELP READERS GAIN A FIRM UNDERSTANDING OF THE BEHAVIOUR OF REINFORCED CONCRETE AND A PROFICIENCY IN THE METHODS USED IN CURRENT DESIGN PRACTICE.

DESIGN OF R.C.C. STRUCTURAL ELEMENTS S.S. BHAVIKATTI 2007-01-01 INDIAN STANDARD CODE OF PRACTICE IS-456 FOR THE DESIGN OF MAIN AND REINFORCED CONCRETE WAS REVISED IN THE YEAR 2000 TO INCORPORATE DURABILITY CRITERIA IN THE DESIGN. AS A RESULT OF IT MANY CODAL PROVISIONS HAVE BEEN CHANGED. HENCE THERE IS NEED TO TRAIN ENGINEERING STUDENTS IN DESIGNING REINFORCED CEMENT CONCRETE STRUCTURES AS PER THE LATEST CODE OF IS -456. WITH HIS EXPERIENCE OF MORE THAN 40 YEARS IN TEACHING, THE AUTHOR HAS TRIED TO BRING OUT STUDENTS AND TEACHERS FRIENDLY BOOK ON THE DESIGN OF RCC STRUCTURES AS PER IS-456: 2000. RCC DESIGN IS A VAST SUBJECT. IT IS NORMALLY TAUGHT IN TWO TO THREE COURSES FOR CIVIL ENGINEERING STUDENTS. THIS BOOK IS FOR THE FIRST COURSE IN RCC DESIGN AND AUTHOR IS WRITING ANOTHER BOOK ADVANCED RCC DESIGN TO MEET THE REQUIREMENT OF FURTHER COURSES. THIS BOOK DEALS WITH DESIGN PHILOSOPHY AND DESIGN OF VARIOUS STRUCTURAL COMPONENTS OF BUILDING. THE DESIGN PROCEDURE IS CLEARLY EXPLAINED AND ILLUSTRATED WITH SEVERAL EXAMPLES BY PRESENTING THE SOLUTIONS STEP BY STEP IN DETAILS AND WITH NEAT SKETCHES SHOWING REINFORCEMENT DETAILS.

REINFORCED CONCRETE STRUCTURAL RELIABILITY PH.D, MOHAMED ABDALLAH EL-REEDY 2012-12-15 STRUCTURAL ENGINEERS MUST FOCUS ON A STRUCTURE'S CONTINUED SAFETY THROUGHOUT ITS SERVICE LIFE. REINFORCED CONCRETE STRUCTURAL RELIABILITY COVERS THE METHODS THAT ENABLE ENGINEERS TO KEEP STRUCTURES RELIABLE DURING ALL PROJECT PHASES, AND PRESENTS A PRACTICAL EXPLORATION OF UP-TO-DATE TECHNIQUES FOR PREDICTING THE LIFETIME OF A STRUCTURE. THE BOOK A