

# Reinforced Concrete Shear Wall Analysis And Design

RECOGNIZING THE SHOWING OFF WAYS TO GET THIS BOOKS **REINFORCED CONCRETE SHEAR WALL ANALYSIS AND DESIGN** IS ADDITIONALLY USEFUL. YOU HAVE REMAINED IN RIGHT SITE TO BEGIN GETTING THIS INFO. GET THE REINFORCED CONCRETE SHEAR WALL ANALYSIS AND DESIGN PARTNER THAT WE HAVE ENOUGH MONEY HERE AND CHECK OUT THE LINK.

YOU COULD PURCHASE GUIDE REINFORCED CONCRETE SHEAR WALL ANALYSIS AND DESIGN OR ACQUIRE IT AS SOON AS FEASIBLE. YOU COULD QUICKLY DOWNLOAD THIS REINFORCED CONCRETE SHEAR WALL ANALYSIS AND DESIGN AFTER GETTING DEAL. SO, FOLLOWING YOU REQUIRE THE BOOK SWIFTLY, YOU CAN STRAIGHT GET IT. ITS CORRESPONDINGLY EXTREMELY SIMPLE AND THEREFORE FATS, ISNT IT? YOU HAVE TO FAVOR TO IN THIS FLAVOR

*DESIGN OF REINFORCED CONCRETE* - JACK C. McCORMAC  
2005

PUBLISHER DESCRIPTION

**STRUCTURAL ANALYSIS AND DESIGN OF TALL BUILDINGS** -  
BUNGALE S. TARANATH 2016-04-19

AS SOFTWARE SKILLS RISE TO THE FOREFRONT OF DESIGN CONCERNS, THE ART OF STRUCTURAL CONCEPTUALIZATION IS OFTEN MINIMIZED. STRUCTURAL ENGINEERING, HOWEVER, REQUIRES THE MARRIAGE OF ARTISTIC AND INTUITIVE DESIGNS

WITH MATHEMATICAL ACCURACY AND DETAIL. COMPUTER ANALYSIS WORKS TO SOLIDIFY AND EXTEND THE CREATIVE IDEA OR CONCEPT THAT MIGHT HAVE STARTED O

**BASIC EARTHQUAKE ENGINEERING** - HAL<sup>2</sup> K SUCUO<sup>2</sup> LU  
2014-05-09

THIS BOOK PROVIDES SENIOR UNDERGRADUATE STUDENTS, MASTER STUDENTS AND STRUCTURAL ENGINEERS WHO DO NOT HAVE A BACKGROUND IN THE FIELD WITH CORE KNOWLEDGE OF STRUCTURAL EARTHQUAKE ENGINEERING THAT WILL BE

INVALUABLE IN THEIR PROFESSIONAL LIVES. THE BASICS OF SEISMOTECTONICS, INCLUDING THE CAUSES, MAGNITUDE, AND INTENSITY OF EARTHQUAKES, ARE FIRST EXPLAINED. THEN THE BOOK INTRODUCES BASIC ELEMENTS OF SEISMIC HAZARD ANALYSIS AND PRESENTS THE CONCEPT OF A SEISMIC HAZARD MAP FOR USE IN SEISMIC DESIGN. SUBSEQUENT CHAPTERS COVER KEY ASPECTS OF THE RESPONSE ANALYSIS OF SIMPLE SYSTEMS AND BUILDING STRUCTURES TO EARTHQUAKE GROUND MOTIONS, DESIGN SPECTRUM, THE ADOPTION OF SEISMIC ANALYSIS PROCEDURES IN SEISMIC DESIGN CODES, SEISMIC DESIGN PRINCIPLES AND SEISMIC DESIGN OF REINFORCED CONCRETE STRUCTURES. HELPFUL WORKED EXAMPLES ON SEISMIC ANALYSIS OF LINEAR, NONLINEAR AND BASE ISOLATED BUILDINGS, EARTHQUAKE-RESISTANT DESIGN OF FRAME AND FRAME-SHEAR WALL SYSTEMS ARE INCLUDED, MOST OF WHICH CAN BE SOLVED USING A HAND CALCULATOR.

**STANDARD METHOD OF DETAILING STRUCTURAL CONCRETE - 2006**

**RECENT ADVANCES IN STRUCTURAL ENGINEERING, VOLUME 1**  
- A. RAMA MOHAN RAO 2018-08-01

THIS BOOK IS A COLLECTION OF SELECT PAPERS PRESENTED AT THE TENTH STRUCTURAL ENGINEERING CONVENTION 2016 (SEC-2016). IT COMPRISES PLENARY, INVITED, AND CONTRIBUTORY PAPERS COVERING NUMEROUS APPLICATIONS FROM A WIDE SPECTRUM OF AREAS RELATED TO STRUCTURAL

ENGINEERING. IT PRESENTS CONTRIBUTIONS BY ACADEMICS, RESEARCHERS, AND PRACTICING STRUCTURAL ENGINEERS ADDRESSING ANALYSIS AND DESIGN OF CONCRETE AND STEEL STRUCTURES, COMPUTATIONAL STRUCTURAL MECHANICS, NEW BUILDING MATERIALS FOR SUSTAINABLE CONSTRUCTION, MITIGATION OF STRUCTURES AGAINST NATURAL HAZARDS, STRUCTURAL HEALTH MONITORING, WIND AND EARTHQUAKE ENGINEERING, VIBRATION CONTROL AND SMART STRUCTURES, CONDITION ASSESSMENT AND PERFORMANCE EVALUATION, REPAIR, REHABILITATION AND RETROFIT OF STRUCTURES. ALSO COVERING ADVANCES IN CONSTRUCTION TECHNIQUES/PRACTICES, BEHAVIOR OF STRUCTURES UNDER BLAST/IMPACT LOADING, FATIGUE AND FRACTURE, COMPOSITE MATERIALS AND STRUCTURES, AND STRUCTURES FOR NON-CONVENTIONAL ENERGY (WIND AND SOLAR), IT WILL SERVE AS A VALUABLE RESOURCE FOR RESEARCHERS, STUDENTS AND PRACTICING ENGINEERS ALIKE.

**EARTHQUAKE RESISTANT DESIGN OF STRUCTURES -**  
SHASHIKANT K. DUGGAL 2013-05

EARTHQUAKE-RESISTANT DESIGN OF STRUCTURES 2E IS DESIGNED FOR UNDERGRADUATE STUDENTS OF CIVIL ENGINEERING.

*SEAOC BLUE BOOK - 2009*

THIS SEAOC BLUE BOOK: SEISMIC DESIGN

RECOMMENDATIONS IS THE PREMIER PUBLICATION OF THE SEAOC SEISMOLOGY COMMITTEE. THE NAME BLUE BOOK IS

RENOWNED WORLDWIDE AMONG ENGINEERS, RESEARCHERS, AND BUILDING OFFICIALS. SINCE 1959, THE SEAOC BLUE BOOK, PREVIOUSLY TITLED RECOMMENDED LATERAL FORCE REQUIREMENTS AND COMMENTARY, HAS BEEN A PRESICENT PUBLICATION OF EARTHQUAKE ENGINEERING. THE BLUE BOOK HAS BEEN AT THE VANGUARD OF EARTHQUAKE ENGINEERING IN CALIFORNIA AND AROUND THE WORLD. THIS EDITION OF THE BLUE BOOKS OFFERS A SERIES OF ARTICLES, THAT COVER SPECIFIC TOPICS, SOME RELATED TO A PARTICULAR CODE PROVISION AND SOME MORE GENERAL RELATING TO AN AREA OF PRACTICE. WHILE DIFFERENT THAN THE PREVIOUS EDITIONS OF THE BLUE BOOKS, IT BUILDS UPON THE TREMENDOUS EFFORT OF THOSE WHO HAVE FORGED EARTHQUAKE ENGINEERING PRACTICE VIA THE PREVIOUS HALF-CENTURY OF BLUE BOOK EDITIONS. THE BLUE BOOK PROVIDES: INSIGHT AND DISCUSSION OF EARTHQUAKE ENGINEERING CONCEPTS; INTERPRETATIONS OF SOMETIMES AMBIGUOUS OR CONFLICTING PROVISIONS OF VARIOUS CODES, STANDARDS, AND GUIDELINES; AND PRACTICAL GUIDANCE ON DESIGN IMPLEMENTATION.

#### *QUANTIFICATION OF BUILDING SEISMIC PERFORMANCE FACTORS - 2009*

THIS REPORT DESCRIBES A RECOMMENDED METHODOLOGY FOR RELIABLY QUANTIFYING BUILDING SYSTEM PERFORMANCE AND RESPONSE PARAMETERS FOR USE IN SEISMIC DESIGN. THE RECOMMENDED METHODOLOGY (REFERRED TO HEREIN AS THE

METHODOLOGY) PROVIDES A RATIONAL BASIS FOR ESTABLISHING GLOBAL SEISMIC PERFORMANCE FACTORS (SPFs), INCLUDING THE RESPONSE MODIFICATION COEFFICIENT (R FACTOR), THE SYSTEM OVERSTRENGTH FACTOR, AND DEFLECTION AMPLIFICATION FACTOR ( $C_D$ ), OF NEW SEISMIC-FORCE-RESISTING SYSTEMS PROPOSED FOR INCLUSION IN MODEL BUILDING CODES. THE PURPOSE OF THIS METHODOLOGY IS TO PROVIDE A RATIONAL BASIS FOR DETERMINING BUILDING SEISMIC PERFORMANCE FACTORS THAT, WHEN PROPERLY IMPLEMENTED IN THE SEISMIC DESIGN PROCESS, WILL RESULT IN EQUIVALENT SAFETY AGAINST COLLAPSE IN AN EARTHQUAKE, COMPARABLE TO THE INHERENT SAFETY AGAINST COLLAPSE INTENDED BY CURRENT SEISMIC CODES, FOR BUILDINGS WITH DIFFERENT SEISMIC-FORCE-RESISTING SYSTEMS.

#### **EARTHQUAKE ENGINEERING FOR STRUCTURAL DESIGN - VICTOR GIONCU 2014-04-21**

DEVELOPMENTS IN EARTHQUAKE ENGINEERING HAVE FOCUSED ON THE CAPACITY AND RESPONSE OF STRUCTURES. THEY OFTEN OVERLOOK THE IMPORTANCE OF SEISMOLOGICAL KNOWLEDGE TO EARTHQUAKE-PROOFING OF DESIGN. IT IS NOT ENOUGH ONLY TO UNDERSTAND THE ANATOMY OF THE STRUCTURE, YOU MUST ALSO APPRECIATE THE NATURE OF THE LIKELY EARTHQUAKE. SEISMIC DESIGN, AS DETAILED IN THIS BOOK, IS THE BRINGING TOGETHER OF EARTHQUAKE ENGINEERING AND ENGINEERING SEISMOLOGY. IT FOCUSES ON

THE SEISMOLOGICAL ASPECTS OF DESIGN – ANALYZING VARIOUS TYPES OF EARTHQUAKE AND HOW THEY AFFECT STRUCTURES DIFFERENTLY. UNDERSTANDING THE DISTINCTION BETWEEN THESE EARTHQUAKE TYPES AND THEIR DIFFERENT IMPACTS ON BUILDINGS CAN MAKE THE DIFFERENCE BETWEEN WHETHER A BUILDING STANDS OR FALLS, OR AT LEAST TO HOW MUCH IT COSTS TO REPAIR. COVERING THE BASIS AND BASICS OF THE MAJOR INTERNATIONAL CODES, THIS IS THE ESSENTIAL GUIDE FOR PROFESSIONALS WORKING ON STRUCTURES IN EARTHQUAKE ZONES AROUND THE WORLD.

DEVELOPMENT OF IMPROVED DESIGN CRITERIA FOR LOW-RISE BUILDINGS IN DEVELOPING COUNTRIES TO BETTER RESIST THE EFFECTS OF EXTREME WINDS - NOEL J. RAUFASTE 1974

**NONLINEAR SEISMIC ANALYSIS AND DESIGN OF REINFORCED CONCRETE BUILDINGS** - P. FAJFAR 1992-03-20

FORTY SCIENTISTS WORKING IN 13 DIFFERENT COUNTRIES DETAIL IN THIS WORK THE MOST RECENT ADVANCES IN SEISMIC DESIGN AND PERFORMANCE ASSESSMENT OF REINFORCED CONCRETE BUILDINGS. IT IS A VALUABLE CONTRIBUTION IN THE MITIGATION OF NATURAL DISASTERS.

*REINFORCED CONCRETE DESIGN* - GEORGE F. LIMBRUNNER 2010

REINFORCED CONCRETE DESIGN, 7E PROVIDES A NON-CALCULUS, PRACTICAL APPROACH TO THE DESIGN, ANALYSIS, AND DETAILING OF REINFORCED CONCRETE STRUCTURAL

MEMBERS USING NUMEROUS EXAMPLES AND A STEP-BY-STEP SOLUTION FORMAT. WRITTEN WITH PRACTICALITY AND ACCESSIBILITY IN MIND, THE TEXT DOES NOT REQUIRE CALCULUS; IT FOCUSES ON THE MATH AND FUNDAMENTALS THAT ARE MOST APPROPRIATE FOR CONSTRUCTION, ARCHITECTURAL, AND ENGINEERING TECHNOLOGY PROGRAMS. REVISED TO CONFORM TO THE LATEST ACI CODE (ACI 318-08), THIS EDITION RETAINS ITS UNIQUE CHAPTERS ON PRESTRESSED CONCRETE, FORMWORK DESIGN AND DETAILING, EXPANDED COVERAGE OF COLUMNS, OVER 150 HOMEWORK PROBLEMS, AND NUMEROUS SAMPLE PROBLEMS COMPLETE WITH STEP-BY-STEP SOLUTIONS.

*REINFORCED CONCRETE* - JAMES GRIERSON MACGREGOR 1997

THE THEORY OF REINFORCED CONCRETE DESIGN IS PRESENTED AS A DIRECT APPLICATION OF THE LAWS OF STATICS AND BEHAVIOR OF REINFORCED CONCRETE. THIS BOOK EMPHASIZES THAT A SUCCESSFUL DESIGN MUST NOT ONLY SATISFY THE DESIGN EQUATIONS, BUT PRACTICAL CONSTRUCTION ASPECTS AS WELL. COVERING BASIC UNDERGRADUATE LEVEL CONCEPTS AND MORE ADVANCED TOPICS, THIS BOOK INCLUDES DETAILED TREATMENTS OF FLEXURE, SHEAR, DEVELOPMENT AND COLUMNS AT A LEVEL SUITABLE FOR UNDERGRADUATE USE, AS WELL AS THE MORE DIFFICULT AREAS OF STRAIN COMPATIBILITY SOLUTIONS OF BEAMS, P-(DELTA) ANALYSES OF FRAMES, STRUT-AND-TIE MODELS, AND DESIGN FOR EARTHQUAKE RESISTANCE. THE NUMEROUS EXAMPLES ARE ALL

WORKED OUT COMPLETELY, STEP-BY-STEP.

### **REINFORCED CONCRETE DESIGN OF TALL BUILDINGS -**

BUNGALE S. TARANATH 2009-12-14

AN EXPLORATION OF THE WORLD OF CONCRETE AS IT APPLIES TO THE CONSTRUCTION OF BUILDINGS, REINFORCED CONCRETE DESIGN OF TALL BUILDINGS PROVIDES A PRACTICAL PERSPECTIVE ON ALL ASPECTS OF REINFORCED CONCRETE USED IN THE DESIGN OF STRUCTURES, WITH PARTICULAR FOCUS ON TALL AND ULTRA-TALL BUILDINGS. WRITTEN BY DR. BUNGALE S. TARANATH, THIS WORK EXPLAINS THE FUNDAMENTAL PRINCIPLES AND STATE-OF-THE-ART TECHNOLOGIES REQUIRED TO BUILD VERTICAL STRUCTURES AS SOUND AS THEY ARE ELOQUENT. DOZENS OF CASES STUDIES OF TALL BUILDINGS THROUGHOUT THE WORLD, MANY DESIGNED BY DR. TARANATH, PROVIDE IN-DEPTH INSIGHT ON WHY AND HOW SPECIFIC STRUCTURAL SYSTEM CHOICES ARE MADE. THE BOOK BRIDGES THE GAP BETWEEN TWO APPROACHES: ONE BASED ON INTUITIVE SKILLS AND EXPERIENCE AND THE OTHER BASED ON COMPUTER SKILLS AND ANALYTICAL TECHNIQUES. EXAMINING THE RESULTS WHEN EXPERIENTIAL INTUITION MARRIES UNFATHOMABLE PRECISION, THIS BOOK DISCUSSES: THE LATEST BUILDING CODES, INCLUDING ASCE/SEI 7-05, IBC-06/09, ACI 318-05/08, AND ASCE/SEI 41-06 RECENT DEVELOPMENTS IN STUDIES OF SEISMIC VULNERABILITY AND RETROFIT DESIGN EARTHQUAKE HAZARD MITIGATION TECHNOLOGY, INCLUDING SEISMIC BASE ISOLATION, PASSIVE

ENERGY DISSIPATION, AND DAMPING SYSTEMS LATERAL BRACING CONCEPTS AND GRAVITY-RESISTING SYSTEMS PERFORMANCE BASED DESIGN TRENDS DYNAMIC RESPONSE SPECTRUM AND EQUIVALENT LATERAL LOAD PROCEDURES USING REALISTIC EXAMPLES THROUGHOUT, DR. TARANATH SHOWS HOW TO CREATE SOUND, COST-EFFICIENT HIGH RISE STRUCTURES. HIS LUCID AND THOROUGH EXPLANATIONS PROVIDE THE TOOLS REQUIRED TO DERIVE SYSTEMS THAT GRACEFULLY RESIST THE BATTERING FORCES OF NATURE WHILE ADDRESSING THE SPECIFIC NEEDS OF BUILDING OWNERS, DEVELOPERS, AND ARCHITECTS. THE BOOK IS PACKED WITH BROAD-RANGING MATERIAL FROM FUNDAMENTAL PRINCIPLES TO THE STATE-OF-THE-ART TECHNOLOGIES AND INCLUDES TECHNIQUES THOROUGHLY DEVELOPED TO BE HIGHLY ADAPTABLE. OFFERING COMPLETE GUIDANCE, INSTRUCTIVE EXAMPLES, AND COLOR ILLUSTRATIONS, THE AUTHOR DEVELOPS SEVERAL APPROACHES FOR DESIGNING TALL BUILDINGS. HE DEMONSTRATES THE BENEFITS OF BLENDING IMAGINATIVE PROBLEM SOLVING AND RATIONAL ANALYSIS FOR CREATING BETTER STRUCTURAL SYSTEMS.

*STRUCTURAL CONCRETE* - M. NADIM HASSOUN

2020-02-26

THE LEADING STRUCTURAL CONCRETE DESIGN REFERENCE FOR OVER TWO DECADES—UPDATED TO REFLECT THE LATEST ACI 318-19 CODE A GO-TO RESOURCE FOR STRUCTURAL ENGINEERING STUDENTS AND PROFESSIONALS FOR OVER

TWENTY YEARS, THIS NEWLY UPDATED TEXT ON CONCRETE STRUCTURAL DESIGN AND ANALYSIS REFLECTS THE MOST RECENT ACI 318-19 CODE. IT EMPHASIZES STUDENT COMPREHENSION BY PRESENTING DESIGN METHODS ALONGSIDE RELEVANT CODES AND STANDARDS. IT ALSO OFFERS NUMEROUS EXAMPLES (PRESENTED USING SI UNITS AND US-SI CONVERSION FACTORS) AND PRACTICE PROBLEMS TO GUIDE STUDENTS THROUGH THE ANALYSIS AND DESIGN OF EACH TYPE OF STRUCTURAL MEMBER. NEW TO STRUCTURAL CONCRETE: THEORY AND DESIGN, SEVENTH EDITION ARE CODE PROVISIONS FOR TRANSVERSE REINFORCEMENT AND SHEAR IN WIDE BEAMS, HANGER REINFORCEMENT, AND BI-DIRECTIONAL INTERACTION OF ONE-WAY SHEAR. THIS EDITION ALSO INCLUDES THE LATEST INFORMATION ON TWO-WAY SHEAR STRENGTH, ORDINARY WALLS, SEISMIC LOADS, REINFORCEMENT DETAILING AND ANALYSIS, AND MATERIALS REQUIREMENTS. THIS BOOK COVERS THE HISTORICAL BACKGROUND OF STRUCTURAL CONCRETE; ADVANTAGES AND DISADVANTAGES; CODES AND PRACTICE; AND DESIGN PHILOSOPHY AND CONCEPTS. IT THEN LAUNCHES INTO A DISCUSSION OF THE PROPERTIES OF REINFORCED CONCRETE, AND CONTINUES WITH CHAPTERS ON FLEXURAL ANALYSIS AND DESIGN; DEFLECTION AND CONTROL OF CRACKING; DEVELOPMENT LENGTH OF REINFORCING BARS; DESIGNING WITH THE STRUT-AND-TIE METHOD; ONE-WAY SLABS; AXIALLY LOADED COLUMNS; AND MORE. UPDATED TO ALIGN WITH THE NEW ACI 318-19

CODE WITH NEW CODE PROVISIONS TO INCLUDE: TRANSVERSE REINFORCEMENT AND SHEAR IN WIDE BEAMS, HANGER REINFORCEMENT, BI-DIRECTIONAL INTERACTION OF ONE-WAY SHEAR, AND REFERENCE TO ACI CERTIFICATIONS INCLUDES DOZENS OF WORKED EXAMPLES THAT EXPLAIN THE ANALYSIS AND DESIGN OF STRUCTURAL MEMBERS OFFERS UPDATED INFORMATION ON TWO-WAY SHEAR STRENGTH, SEISMIC LOADS, MATERIALS REQUIREMENTS, AND MORE IMPROVES THE DESIGN ABILITY OF STUDENTS BY EXPLAINING CODE REQUIREMENTS AND RESTRICTIONS PROVIDES EXAMPLES IN SI UNITS IN EVERY CHAPTER AS WELL AS CONVERSION FACTORS FROM CUSTOMARY UNITS TO SI OFFERS INSTRUCTORS ACCESS TO A SOLUTIONS MANUAL VIA THE BOOK'S COMPANION WEBSITE STRUCTURAL CONCRETE: THEORY AND DESIGN, SEVENTH EDITION IS AN EXCELLENT TEXT FOR UNDERGRADUATE AND GRADUATE STUDENTS IN CIVIL AND STRUCTURAL ENGINEERING PROGRAMS. IT WILL ALSO BENEFIT CONCRETE DESIGNERS, STRUCTURAL ENGINEERS, AND CIVIL ENGINEERS FOCUSED ON STRUCTURES.

**MASONRY STRUCTURAL DESIGN** - RICHARD E. KLINGNER  
2010-02-08

A COMPLETE GUIDE TO MASONRY MATERIALS AND STRUCTURAL DESIGN WRITTEN BY THE FORMER CHAIR OF THE MASONRY STANDARDS JOINT COMMITTEE (MSJC), THIS AUTHORITATIVE VOLUME COVERS THE DESIGN OF MASONRY STRUCTURES USING THE 2009 INTERNATIONAL BUILDING

CODE AND THE 2008 MSJC CODE AND SPECIFICATION. MASONRY STRUCTURAL DESIGN EMPHASIZES THE STRENGTH DESIGN OF MASONRY AND INCLUDES ALLOWABLE-STRESS PROVISIONS. INNOVATIONS SUCH AS AUTOCLAVED AERATED CONCRETE MASONRY (AAC) ARE ALSO DISCUSSED. REAL-WORLD CASE STUDIES FEATURING A LOW-RISE BUILDING WITH REINFORCED CONCRETE MASONRY AND A FOUR-STORY BUILDING WITH CLAY MASONRY ILLUSTRATE THE TECHNIQUES PRESENTED IN THIS COMPREHENSIVE RESOURCE. COVERAGE INCLUDES: BASIC STRUCTURAL BEHAVIOR AND DESIGN OF LOW-RISE, BEARING WALL BUILDINGS MATERIALS USED IN MASONRY CONSTRUCTION CODE BASIS FOR STRUCTURAL DESIGN OF MASONRY BUILDINGS, INCLUDING SEISMIC DESIGN INTRODUCTION OF MSJC TREATMENT OF STRUCTURAL DESIGN STRENGTH DESIGN OF REINFORCED AND UNREINFORCED MASONRY ELEMENTS ALLOWABLE-STRESS DESIGN OF REINFORCED AND UNREINFORCED MASONRY ELEMENTS COMPARISON OF DESIGN BY THE ALLOWABLE-STRESS APPROACH VERSUS THE STRENGTH APPROACH LATERAL LOAD ANALYSIS OF SHEAR WALL STRUCTURE DESIGN AND DETAILING OF FLOOR AND ROOF DIAPHRAGMS

**UNIFIED THEORY OF CONCRETE STRUCTURES** - THOMAS T. C. Hsu 2010-03-16

UNIFIED THEORY OF CONCRETE STRUCTURES DEVELOPS AN INTEGRATED THEORY THAT ENCOMPASSES THE VARIOUS STRESS STATES EXPERIENCED BY BOTH RC & PC STRUCTURES

UNDER THE VARIOUS LOADING CONDITIONS OF BENDING, AXIAL LOAD, SHEAR AND TORSION. UPON SYNTHESIS, THE NEW RATIONAL THEORIES REPLACE THE MANY EMPIRICAL FORMULAS CURRENTLY IN USE FOR SHEAR, TORSION AND MEMBRANE STRESS. THE UNIFIED THEORY IS DIVIDED INTO SIX MODEL COMPONENTS: A) THE STRUTS-AND-TIES MODEL, B) THE EQUILIBRIUM (PLASTICITY) TRUSS MODEL, C) THE BERNOULLI COMPATIBILITY TRUSS MODEL, D) THE MOHR COMPATIBILITY TRUSS MODEL, E) THE SOFTENED TRUSS MODEL, AND F) THE SOFTENED MEMBRANE MODEL. HSU PRESENTS THE SIX MODELS AS RATIONAL TOOLS FOR THE SOLUTION OF THE FOUR BASIC TYPES OF STRESS, FOCUSING ON THE SIGNIFICANCE OF THEIR INTRINSIC CONSISTENCIES AND THEIR INTER-RELATIONSHIPS. BECAUSE OF ITS INHERENT RATIONALITY, THIS UNIFIED THEORY OF REINFORCED CONCRETE CAN SERVE AS THE BASIS FOR THE FORMULATION OF A UNIVERSAL AND INTERNATIONAL DESIGN CODE. INCLUDES AN APPENDIX AND ACCOMPANYING WEBSITE HOSTING THE AUTHORS' FINITE ELEMENT PROGRAM SCS ALONG WITH INSTRUCTIONS AND EXAMPLES OFFERS COMPREHENSIVE COVERAGE OF CONTENT RANGING FROM FUNDAMENTALS OF FLEXURE, SHEAR AND TORSION ALL THE WAY TO NON-LINEAR FINITE ELEMENT ANALYSIS AND DESIGN OF WALL-TYPE STRUCTURES UNDER EARTHQUAKE LOADING. AUTHORED BY WORLD-LEADING EXPERTS ON TORSION AND SHEAR WIND AND EARTHQUAKE RESISTANT BUILDINGS - BUNGALE S. TARANATH 2004-12-15

DEVELOPED AS A RESOURCE FOR PRACTICING ENGINEERS, WHILE SIMULTANEOUSLY SERVING AS A TEXT IN A FORMAL CLASSROOM SETTING, WIND AND EARTHQUAKE RESISTANT BUILDINGS PROVIDES A FUNDAMENTAL UNDERSTANDING OF THE BEHAVIOR OF STEEL, CONCRETE, AND COMPOSITE BUILDING STRUCTURES. THE TEXT FORMAT FOLLOWS, IN A LOGICAL MANNER, THE TYPICAL PROCESS OF DESIGNING A BUILDING, FROM THE FIRST STEP OF DETERMINING DESIGN LOADS, TO THE FINAL STEP OF EVALUATING ITS BEHAVIOR FOR UNUSUAL EFFECTS. INCLUDES A WORKSHEET THAT TAKES THE DRUDGERY OUT OF ESTIMATING WIND RESPONSE. THE BOOK PRESENTS AN IN-DEPTH REVIEW OF WIND EFFECTS AND OUTLINES SEISMIC DESIGN, HIGHLIGHTING THE DYNAMIC BEHAVIOR OF BUILDINGS. IT COVERS THE DESIGN AND DETAILING THE REQUIREMENTS OF STEEL, CONCRETE, AND COMPOSITE BUILDINGS ASSIGNED TO SEISMIC DESIGN CATEGORIES A THROUGH E. THE AUTHOR EXPLAINS CRITICAL CODE SPECIFIC ITEMS AND STRUCTURAL CONCEPTS BY DOING THE NEARLY IMPOSSIBLE FEAT OF ADDRESSING THE HISTORY, REASON FOR EXISTENCE, AND INTENT OF MAJOR DESIGN PROVISIONS OF THE BUILDING CODES. WHILE THE SCOPE OF THE BOOK IS INTENTIONALLY BROAD, IT PROVIDES ENOUGH IN-DEPTH COVERAGE TO MAKE IT USEFUL FOR STRUCTURAL ENGINEERS IN ALL STAGES OF THEIR CAREERS.

**THE ANALYSIS OF IRREGULAR SHAPED STRUCTURES  
DIAPHRAGMS AND SHEAR WALLS - TERRY R. MALONE**

2011-12-05

A COMPLETE GUIDE TO SOLVING LATERAL LOAD PATH PROBLEMS THE ANALYSIS OF IRREGULAR SHAPED STRUCTURES: DIAPHRAGMS AND SHEAR WALLS EXPLAINS HOW TO CALCULATE THE FORCES TO BE TRANSFERRED ACROSS MULTIPLE DISCONTINUITIES AND REFLECT THE DESIGN REQUIREMENTS ON CONSTRUCTION DOCUMENTS. STEP-BY-STEP EXAMPLES OFFER PROGRESSIVE COVERAGE, FROM BASIC TO VERY ADVANCED ILLUSTRATIONS OF LOAD PATHS IN COMPLICATED STRUCTURES. THE BOOK IS BASED ON THE 2009 INTERNATIONAL BUILDING CODE, ASCE/SEI 7-05, THE 2005 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AND THE 2008 EDITION OF THE SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS-08). COVERAGE INCLUDES: CODE SECTIONS AND ANALYSIS DIAPHRAGM BASICS DIAPHRAGMS WITH END HORIZONTAL OFFSETS DIAPHRAGMS WITH INTERMEDIATE OFFSETS DIAPHRAGMS WITH OPENINGS OPEN FRONT AND CANTILEVER DIAPHRAGMS DIAPHRAGMS WITH VERTICAL OFFSETS COMPLEX DIAPHRAGMS WITH COMBINED OPENINGS AND OFFSETS STANDARD SHEAR WALLS SHEAR WALLS WITH OPENINGS DISCONTINUOUS SHEAR WALLS HORIZONTALLY OFFSET SHEAR WALLS THE PORTAL FRAME RIGID MOMENT-RESISTING FRAME WALLS--THE FRAME METHOD OF ANALYSIS  
NBS BUILDING SCIENCE SERIES - 1974



**BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05) AND COMMENTARY (ACI 318R-05) - ACI COMMITTEE 318 2005**

**SEISMIC DESIGN FOR BUILDINGS - UNITED STATES. DEPARTMENT OF DEFENSE. TRI-SERVICE SEISMIC DESIGN COMMITTEE 1973**

REINFORCED CONCRETE - B.S. CHOO 2002-12-24

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.

**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.

*SEISMIC DESIGN OF REINFORCED CONCRETE STRUCTURES FOR CONTROLLED INELASTIC RESPONSE - COMIT<sup>2</sup> EURO-INTERNATIONAL DU B<sup>2</sup> TON 1998*

THIS DETAILED GUIDE IS DESIGNED TO ENABLE THE READER TO

UNDERSTAND THE RELATIVE IMPORTANCE OF THE NUMEROUS PARAMETERS INVOLVED IN SEISMIC DESIGN AND THE RELATIONSHIPS BETWEEN THEM, AS WELL AS THE MOTIVATIONS BEHIND THE CHOICES ADOPTED BY THE CODES.

**CONCRETE STRUCTURES STANDARD - STANDARDS NEW ZEALAND 1995**

**INTERNATIONAL BUILDING CODE 2006 - INTERNATIONAL CODE COUNCIL 2006**

PROVIDES UP-TO-DATE, COMPREHENSIVE COVERAGE THAT ESTABLISHES MINIMUM REGULATIONS FOR BUILDING SYSTEMS USING PRESCRIPTIVE AND PERFORMANCE-RELATED PROVISIONS.

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI COMMITTEE 318 2014

REINFORCED CONCRETE FUNDAMENTALS - PHIL MOSS FERGUSON 1979

THROUGH FOUR EDITIONS, PHIL M. FERGUSON'S REINFORCED CONCRETE FUNDAMENTALS HAS BECOME A RECOGNIZED CLASSIC, KNOWN FOR ITS CLARITY AND THOROUGHNESS. THERE IS, IN FACT, NO OTHER REINFORCED CONCRETE TEXT AVAILABLE AS USEFUL FOR BOTH BEGINNERS AND EXPERIENCED DESIGNERS. NOW A FIFTH EDITION, REFLECTING THE 1983 AND 1986 ACI CODE REVISIONS, BRINGS REINFORCED CONCRETE FUNDAMENTALS COMPLETELY UP TO DATE WHILE RETAINING FERGUSON'S POPULAR APPROACH. CHANGES INCLUDE A

RETURN, FOR MOST EXAMPLES, TO THE USE OF ENGLISH UNITS TO REFLECT CURRENT PRACTICE, REORGANIZATION OF MATERIAL FOR GREATER CLARITY, REVISION AND EXPANSION OF SEISMIC DESIGN-RELATED TOPICS, AND AN EMPHASIS ON CONCEPTUAL MODELS FOR DESIGN. THERE ARE ENTIRELY NEW CHAPTERS ON DESIGN AND DETAILING IN THE CENTRAL JOINT REGIONS, AND ON SHEAR WALL DESIGN. IN ADDITION, SUBSTANTIAL REVISIONS HAVE BEEN MADE IN THE BASIC APPROACH TO THE DESIGN OF SLENDER COLUMNS IN ORDER TO EMPHASIZE THE SECONDARY DEFLECTION PATTERNS, AND IN THE TREATMENT OF SPLICES, REINFORCEMENT DEVELOPMENT AND HOOKS IN ORDER TO REFLECT THE BASIC BEHAVIOR AND FAILURE PATTERNS RATHER THAN JUST ARBITRARY CODE RULES. THE COVERAGE OF SEISMIC DESIGN, INTERACTION CURVES FOR ECCENTRICALLY LOADED COLUMNS, AND DIRECT DESIGN PROCEDURES FOR TWO-WAY SLABS HAS BEEN REVISED AS WELL. AS IN PREVIOUS EDITIONS, REINFORCED CONCRETE FUNDAMENTALS IMPARTS A CLEAR UNDERSTANDING OF THE BEHAVIOR OF REINFORCED CONCRETE MEMBERS AND ASSEMBLAGES WITH AN EMPHASIS ON THE "FLOW" OF THE DESIGN PROCESS. THROUGHOUT, BEHAVIOR AT ALL LOAD STAGES IS ILLUSTRATED BY FIGURES AND PHOTOS. A SET OF WORKING APPENDICES DELIVERS A SUMMARY TREATMENT OF SERVICE LOAD ANALYSIS FOR FLEXURE, AND DESIGN TABLES AND CURVES. MAINTAINING THE HIGH STANDARDS OF ITS POPULAR PREDECESSORS, REINFORCED CONCRETE

FUNDAMENTALS, FIFTH EDITION MAKES UP AN IDEAL REFERENCE, REFRESHER, AND DESKTOP RESOURCE FOR CIVIL ENGINEERS NEEDING A CLEAR, MODERN APPROACH TO CONCRETE DESIGN.

**CONCRETE SHEAR IN EARTHQUAKE** - T.C.C. HSU  
1992-01-15

THIS VOLUME CONSISTS OF PAPERS PRESENTED AT THE INTERNATIONAL WORKSHOP ON CONCRETE SHEAR IN EARTHQUAKE, HELD AT THE UNIVERSITY OF HOUSTON, TEXAS, USA, 13-16 JANUARY 1991.

PROCEEDINGS OF SECON'21 - GIUSEPPE CARLO MARANO  
2021-09-03

THIS BOOK GATHERS PEER-REVIEWED CONTRIBUTIONS PRESENTED AT THE INTERNATIONAL CONFERENCE ON STRUCTURAL ENGINEERING AND CONSTRUCTION MANAGEMENT (SECON'21), HELD ON 12-15 MAY 2021. THE MEETING SERVED AS A FERTILE PLATFORM FOR DISCUSSION, SHARING SOUND KNOWLEDGE AND INTRODUCING NOVEL IDEAS ON ISSUES RELATED TO SUSTAINABLE CONSTRUCTION AND DESIGN FOR THE FUTURE. THE RESPECTIVE CONTRIBUTIONS ADDRESS VARIOUS ASPECTS OF NUMERICAL MODELING AND SIMULATION IN STRUCTURAL ENGINEERING, STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING, ADVANCED ANALYSIS AND DESIGN OF FOUNDATIONS, BIM, BUILDING ENERGY MANAGEMENT, AND TECHNICAL PROJECT MANAGEMENT. ACCORDINGLY, THE BOOK OFFERS A VALUABLE, UP-TO-DATE TOOL AND ESSENTIAL OVERVIEW OF THE SUBJECT FOR SCIENTISTS AND

PRACTITIONERS ALIKE, AND WILL INSPIRE FURTHER INVESTIGATIONS AND RESEARCH.

**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

**ADVANCES IN CIVIL ENGINEERING AND INFRASTRUCTURAL**

**DEVELOPMENT -** LAXMIKANT MADANMANOHAR GUPTA

2020-11-13

THIS BOOK COMPRISES SELECTED PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN CIVIL ENGINEERING AND INFRASTRUCTURAL DEVELOPMENTS (ICRACEID 2019). THE CONTENTS ARE BROADLY DIVIDED INTO FIVE AREAS (I) SMART TRANSPORTATION WITH URBAN PLANNING, (II) CLEAN ENERGY AND ENVIRONMENT, (III) WATER DISTRIBUTION AND WASTE MANAGEMENT, (IV) SMART MATERIALS AND STRUCTURES, AND (V) DISASTER MANAGEMENT. THE BOOK AIMS TO PROVIDE SOLUTIONS TO GLOBAL CHALLENGES USING INNOVATIVE AND EMERGING TECHNOLOGIES COVERING VARIOUS FIELDS OF CIVIL ENGINEERING. THE MAJOR TOPICS COVERED INCLUDE URBAN PLANNING, TRANSPORTATION, WATER DISTRIBUTION, WASTE MANAGEMENT, DISASTER MANAGEMENT, ENVIRONMENTAL POLLUTION AND CONTROL, ENVIRONMENTAL IMPACT ASSESSMENT, APPLICATION OF GIS AND REMOTE SENSING, AND STRUCTURAL ANALYSIS AND DESIGN. GIVEN THE RANGE OF TOPICS DISCUSSED, THE BOOK WILL BE BENEFICIAL FOR STUDENTS, RESEARCHERS AS WELL INDUSTRY PROFESSIONALS.

**SEISMIC DESIGN OF REINFORCED CONCRETE AND MASONRY**

**BUILDINGS -** THOMAS PAULAY 1992-04-10

EMPHASIZES ACTUAL STRUCTURAL DESIGN, NOT ANALYSIS, OF MULTISTORY BUILDINGS FOR SEISMIC RESISTANCE. STRONG EMPHASIS IS PLACED ON SPECIFIC DETAILING REQUIREMENTS FOR CONSTRUCTION. FUNDAMENTAL DESIGN PRINCIPLES ARE PRESENTED TO CREATE BUILDINGS THAT RESPOND TO A WIDE RANGE OF POTENTIAL SEISMIC FORCES, WHICH ARE ILLUSTRATED BY NUMEROUS DETAILED EXAMPLES. THE DISCUSSION INCLUDES THE DESIGN OF REINFORCED CONCRETE DUCTILE FRAMES, STRUCTURAL WALLS, DUAL SYSTEMS, REINFORCED MASONRY STRUCTURES, BUILDINGS WITH RESTRICTED DUCTILITY AND FOUNDATION WALLS. IN ADDITION TO THE EXAMPLES, FULL DESIGN CALCULATIONS ARE GIVEN FOR THREE PROTOTYPE STRUCTURES.

*APPLIED MECHANICS REVIEWS* - 1974

*MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES* - AMERICAN SOCIETY OF CIVIL ENGINEERS 2013

THIRD PRINTING, INCORPORATING ERRATA, SUPPLEMENT 1, AND EXPANDED COMMENTARY, 2013.

**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 MASONRY DESIGN** - ROBERT R. SCHNEIDER 1994

THIS VOLUME PROVIDES AN IN-DEPTH, STATE-OF-THE-ART EXPLORATION OF THE ENTIRE GAMUT OF MODERN MASONRY CONSTRUCTION -- PROPERTIES AND PERFORMANCE OF MASONRY MATERIALS, DESIGN CRITERIA AND METHODS IN

REINFORCED MASONRY, COMPLETE DESIGN APPLICATIONS FOR BOTH LOW AND HIGH-RISE MASONRY, AND ENVIRONMENTAL FEATURES. THIS NEW EDITION REFLECTS THE LANDMARK CHANGES IN THE PHILOSOPHY IN THE 1992 UNIFORM BUILDING CODE (E.G., INTRODUCTION OF STRENGTH DESIGN CONCEPTS OF BEARING AND SHEAR WALL ANALYSIS; CHANGES IN LATERAL FORCE LEVELS; REVISION OF THE BASE SHEAR FORMULA). INTEGRATES DESIGN PRINCIPLES WITH THE GOVERNING UNIFORM BUILDING CODE THROUGHOUT; DEMONSTRATES THE SYMBIOTIC RELATIONSHIPS THAT EXIST AMONG THE VARIOUS STRUCTURAL COMPONENTS (E.G. BEAMS, COLUMNS, LATERAL FORCE RESISTING SYSTEMS); PRESENTS COMPLETE DESIGNS FOR REINFORCED CONCRETE AND STRUCTURAL STEEL; CONTAINS PROBLEM EXAMPLES DEMONSTRATING HOW TO DESIGN VARIOUS STRUCTURAL COMPONENTS, AND FEATURES FOUR CASE STUDIES (NUMERICAL EXAMPLES) SHOWING HOW TO INTEGRATE THE VARIOUS STRUCTURAL COMPONENTS INTO A COMPLETE SYSTEM. FOR STRUCTURAL DESIGNERS, DRAFTSMAN, AND ENGINEERS.

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-08) AND COMMENTARY - ACI COMMITTEE 318 2008

THE QUALITY AND TESTING OF MATERIALS USED IN CONSTRUCTION ARE COVERED BY REFERENCE TO THE APPROPRIATE ASTM STANDARD SPECIFICATIONS. WELDING OF REINFORCEMENT IS COVERED BY REFERENCE TO THE

APPROPRIATE AWS STANDARD. USES OF THE CODE INCLUDE ADOPTION BY REFERENCE IN GENERAL BUILDING CODES, AND EARLIER EDITIONS HAVE BEEN WIDELY USED IN THIS MANNER. THE CODE IS WRITTEN IN A FORMAT THAT ALLOWS SUCH REFERENCE WITHOUT CHANGE TO ITS LANGUAGE. THEREFORE, BACKGROUND DETAILS OR SUGGESTIONS FOR CARRYING OUT THE REQUIREMENTS OR INTENT OF THE CODE PORTION CANNOT BE INCLUDED. THE COMMENTARY IS PROVIDED FOR THIS PURPOSE. SOME OF THE CONSIDERATIONS OF THE COMMITTEE IN DEVELOPING THE CODE PORTION ARE DISCUSSED WITHIN THE COMMENTARY, WITH EMPHASIS GIVEN TO THE EXPLANATION OF NEW OR REVISED PROVISIONS. MUCH OF THE RESEARCH DATA REFERENCED IN PREPARING THE CODE IS CITED FOR THE USER DESIRING TO STUDY INDIVIDUAL QUESTIONS IN GREATER DETAIL. OTHER DOCUMENTS THAT PROVIDE SUGGESTIONS FOR CARRYING OUT THE REQUIREMENTS OF THE CODE ARE ALSO CITED.

STRUCTURAL CONCRETE - M. NADIM HASSOUN 2012-05  
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.