Design Of Seismic Retrofitting Of Reinforced Concrete

Seismic Assessment and Retrofit of Reinforced Concrete BuildingsThe MINIMAC ProjectRetrofitting of Reinforced Concrete Structures Using Wire Rope as Transverse ReinforcementSeismic Performance and Retrofitting of Reinforced Concrete Bridge BentsRetrofitting of Reinforced Concrete Coupling Beams by Bolted Side Steel Plates for Strength and DeformabilityStrengthening and Retrofitting of Existing StructuresRetrofitting of Concrete Structures by Externally Bonded FRPs, With Emphasis on Seismic ApplicationsRetrofitting of reinforced concrete beams with CFRP straps to enhance shear capacityShear Retrofitting of Reinforced Concrete Beams with CFRP StrapsRetrofitting of Reinforced Concrete Moment Resisting FramesRetrofitting of Reinforced Concrete Moment Resisting FramesFlexural Retrofitting of Reinforced Concrete Structures Using Green Natural Fiber Reinforced Polymer PlatesDesign Guidelines for Assessment Retrofit and Repair of Bridges for Seismic PerformanceRetrofitting of Reinforced Concrete Beams with CARDIFRC in Hot ClimateRetrofitting Design of Building StructuresAssessment and Retrofitting of Reinforced Concrete Buildings with Shear Walls Subject to Earthquake LoadingCarbon Fiber Jacket Repair and Retrofit of Reinforced Concrete Circular Bridge ColumnsRetrofitting of Heritage StructuresAn Economic Analysis for Retrofitting a Reinforced Concrete Building for Seismic ForcesCase Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures fib F□ d□ ration internationale du b□ ton John Stuart Collins Oliver Jung Yong Zhu An□ bal Costa fib F□ d□ ration internationale du b□ ton Neil Anthony Hoult N. A. Hoult Shigeru Hakuto Shigeru Hakuto Ignacio Cervantes M. J. N Priestley Mohamed Ashour Ewaze Xilin Lu Siti Aliyyah Masjuki Derek P. Gallagher S. Syngellakis Arthur Monsey Mourad M. Bakhoum Seismic Assessment and Retrofit of Reinforced Concrete Buildings The MINIMAC Project Retrofitting of Reinforced Concrete Structures Using Wire Rope as Transverse Reinforcement Seismic Performance and Retrofitting of Reinforced Concrete Bridge Bents Retrofitting of Reinforced Concrete Coupling Beams by Bolted Side Steel Plates for Strength and Deformability Strengthening and Retrofitting of Existing Structures Retrofitting of Concrete Structures by Externally Bonded FRPs, With Emphasis on Seismic Applications Retrofitting of reinforced concrete beams with CFRP straps to enhance shear capacity Shear Retrofitting of Reinforced Concrete Beams with CFRP Straps Retrofitting of Reinforced Concrete Moment Resisting Frames Retrofitting of Reinforced Concrete Moment Resisting Frames Flexural Retrofitting of Reinforced Concrete Structures Using Green Natural Fiber Reinforced Polymer Plates Design Guidelines for Assessment Retrofit and Repair of Bridges for Seismic Performance Retrofitting of Reinforced Concrete Beams with CARDIFRC in Hot Climate Retrofitting Design of Building Structures Assessment and Retrofitting of Reinforced Concrete Buildings with Shear Walls Subject to Earthquake Loading Carbon Fiber Jacket Repair and Retrofit of Reinforced Concrete Circular Bridge Columns Retrofitting of Heritage Structures An Economic Analysis for Retrofitting a Reinforced Concrete Building for Seismic Forces Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures *fib F□ d□ ration internationale du b□ John Stuart Collins Oliver Jung Yong Zhu An□ bal Costa fib F□ d□ ration internationale du b□ Neil Anthony Hoult N. A. Hoult Shigeru Hakuto Shigeru Hakuto Ignacio Cervantes M. J. N Priestley Mohamed Ashour Ewaze Xilin Lu Siti Aliyyah Masjuki Derek P. Gallagher S. Syngellakis Arthur Monsey Mourad M. Bakhoum*

In most parts of the developed world the building stock and the civil infrastructure are ageing and in constant need of maintenance repair and upgrading moreover in the light of our current knowledge and of modern codes the majority of buildings stock and other types of structures in many parts of the world are substandard and deficient this is especially so in earthquake prone regions as even there seismic design of structures is relatively recent in those regions the major part of the seismic threat to human life and

PROPERTY COMES FROM OLD BUILDINGS DUE TO THE INFRASTRUCTURE S INCREASING DECAY FREQUENTLY COMBINED WITH THE NEED FOR STRUCTURAL UPGRADING TO MEET MORE STRINGENT DESIGN REQUIREMENTS ESPECIALLY AGAINST SEISMIC LOADS STRUCTURAL RETROFITTING IS BECOMING MORE AND MORE IMPORTANT AND RECEIVES TODAY CONSIDERABLE EMPHASIS THROUGHOUT THE WORLD IN RESPONSE TO THIS NEED A MAJOR PART OF THE FIB MODEL CODE 2005 CURRENTLY UNDER DEVELOPMENT IS BEING DEVOTED TO STRUCTURAL CONSERVATION AND MAINTENANCE MORE IMPORTANTLY IN RECOGNITION OF THE IMPORTANCE OF THE SEISMIC THREAT ARISING FROM EXISTING SUBSTANDARD BUILDINGS THE FIRST STANDARDS FOR STRUCTURAL UPGRADING TO BE PROMOTED BY THE INTERNATIONAL ENGINEERING COMMUNITY AND BY REGULATORY AUTHORITIES ALIKE ARE FOR SEISMIC REHABILITATION OF BUILDINGS THIS IS THE CASE FOR EXAMPLE OF PART 3 STRENGTHENING AND REPAIR OF BUILDINGS OF EUROCODE 8 I E OF THE DRAFT EUROPEAN STANDARD FOR EARTHQUAKE RESISTANT DESIGN AND WHICH IS THE ONLY ONE AMONG THE CURRENT 2003 SET OF 58 EUROCODES ATTEMPTING TO ADDRESS THE PROBLEM OF STRUCTURAL UPGRADING IT IS ALSO THE CASE OF THE RECENT 2001 ASCE DRAFT STANDARD ON SEISMIC EVALUATION OF EXISTING BUILDINGS AND OF THE 1996 LAW FOR PROMOTION OF SEISMIC STRENGTHENING OF EXISTING REINFORCED CONCRETE STRUCTURES IN JAPAN AS NOTED IN CHAPTER 1 OF THIS BULLETIN FIB AS CEB AND FIP DID BEFORE HAS PLACED CONSIDERABLE EMPHASIS ON ASSESSMENT AND REHABILITATION OF EXISTING STRUCTURES THE PRESENT BULLETIN IS A CULMINATION OF THIS EFFORT IN THE SPECIAL BUT VERY IMPORTANT FIELD OF SEISMIC ASSESSMENT AND REHABILITATION IT HAS BEEN ELABORATED OVER A PERIOD OF 4 YEARS BY TASK GROUP 7 1 ASSESSMENT AND RETROFIT OF EXISTING STRUCTURES OF FIB COMMISSION 7 SEISMIC DESIGN A TRULY INTERNATIONAL TEAM OF EXPERTS REPRESENTING THE EXPERTISE AND EXPERIENCE OF ALL THE IMPORTANT SEISMIC REGIONS OF THE WORLD IN THE COURSE OF ITS WORK THE TEAM HAD SIX PLENARY TWO DAY MEETINGS IN JANUARY 1999 IN PAVIA ITALY IN AUGUST 1999 IN RALEIGH NORTH CAROLINA IN FEBRUARY 2000 IN QUEENSTOWN NEW ZEALAND IN JULY 2000 IN PATRAS GREECE IN MARCH 2001 IN LAUSANNE SWITZERLAND AND IN AUGUST 2001 IN SEATTLE WASHINGTON IN OCTOBER 2002 THE FINAL DRAFT OF THE BULLETIN WAS PRESENTED TO PUBLIC DURING THE 1ST FIB CONGRESS IN OSAKA IT WAS ALSO THERE THAT IT WAS APPROVED BY FIB COMMISSION 7 SEISMIC DESIGN THE CONTENTS IS STRUCTURED INTO MAIN CHAPTERS AS FOLLOWS 1 INTRODUCTION 2 PERFORMANCE OBJECTIVES AND SYSTEM CONSIDERATIONS 3 REVIEW OF SEISMIC ASSESSMENT PROCEDURES 4 STRENGTH AND DEFORMATION CAPACITY OF NON SEISMICALLY DETAILED COMPONENTS 5 SEISMIC RETROFITTING TECHNIQUES 6 PROBABILISTIC CONCEPTS AND METHODS 7 CASE STUDIES

SUMMARY AVAILABLE VIA THE WORLD WIDE AS OF 8 29 2002 FROM THE BRIDGE RESEARCH AND INFORMATION CENTER WEB SITE

THIS DISSERTATION RETROFITTING OF REINFORCED CONCRETE COUPLING BEAMS BY BOLTED SIDE STEEL PLATES FOR STRENGTH AND DEFORMABILITY BY YONG ZHU ? ? WAS OBTAINED FROM THE UNIVERSITY OF HONG KONG POKFULAM HONG KONG AND IS BEING SOLD PURSUANT TO CREATIVE COMMONS ATTRIBUTION 3 0 HONG KONG LICENSE THE CONTENT OF THIS DISSERTATION HAS NOT BEEN ALTERED IN ANY WAY WE HAVE ALTERED THE FORMATTING IN ORDER TO FACILITATE THE EASE OF PRINTING AND READING OF THE DISSERTATION ALL RIGHTS NOT GRANTED BY THE ABOVE LICENSE ARE RETAINED BY THE AUTHOR ABSTRACT ABSTRACT OF THESIS ENTITLED RETROFITTING OF REINFORCED CONCRETE COUPLING BEAMS BY BOLTED SIDE STEEL PLATES FOR STRENGTH AND DEFORMABILITY ZHU YONG FOR THE DEGREE OF DOCTOR OF PHILOSOPHY AT THE UNIVERSITY OF HONG KONG IN FEBRUARY 2006 MODERN CITIES LIKE HONG KONG CONTAIN NUMEROUS OLD REINFORCED CONCRETE RC BUILDINGS WHICH OFTEN REQUIRE SUBSTANTIAL STRENGTHENING RETROFITTING OR REFURBISHMENT AS THE MATERIALS USED IN THEIR CONSTRUCTION AGE MANY LOCAL RC BUILDINGS WERE BUILT THREE OR FOUR DECADES AGO AND THEIR CONCRETE AND REINFORCEMENT HAVE ALREADY SUFFERED SERIOUS DETERIORATION DUE TO CARBONATION AND CHLORIDE ATTACK MAJOR RETROFITTING IS NORMALLY REQUIRED FOR THESE BUILDINGS FURTHERMORE SEVERAL EXISTING BUILDINGS DESIGNED ACCORDING TO OUTDATED DESIGN STANDARDS ARE DEFICIENT IN SHEAR REINFORCEMENT AND REQUIRE SUBSTANTIAL STRENGTHENING TO INCREASE THEIR SAFETY MARGIN A RECENT SEISMIC HAZARD STUDY HAS ALSO REVEALED THAT HONG KONG IS LOCATED IN A REGION OF LOW TO MODERATE SEISMICITY AND THE LATEST DESIGN STANDARDS INCLUDE INCREASED LOAD SPECIFICATIONS MANY EXISTING BUILDINGS WERE DESIGNED WITHOUT ANY PROVISION FOR EARTHQUAKE RESISTANCE AND ARE NOW CONSIDERED STRUCTURALLY INADEQUATE AS A RESULT THE LIMITED DEFORMABILITY AND ENERGY DISSIPATION OF EXISTING STRUCTURES PARTICULARLY THEIR COUPLING BEAMS HAVE BECOME A MAJOR CONCERN FOR MANY LOCAL STRUCTURAL AND SEISMIC ENGINEERS ACCORDINGLY THIS STUDY PROVIDES A THEORETICAL BASE FOR THE DESIGN OF RETROFITTING OF RC COUPLING BEAMS AND ALSO ESTABLISHES A FUNDAMENTAL FRAMEWORK FOR FURTHER INVESTIGATIONS OF STRENGTHENING OF RC STRUCTURE USING BOLTED STEEL PLATE IN THE FIRST PART OF THIS THESIS A SIMPLE PROCEDURE BASED ON THE DISPLACEMENT BASED APPROACH HAS BEEN DERIVED FOR THE SEISMIC ASSESSMENT OF EXISTING RC BUILDINGS USING THIS PROCEDURE THE MAXIMUM SEISMIC INTER STOREY DRIFT DEMAND OF BUILDINGS AND THE MAXIMUM CHORD ROTATION DEMAND OF COUPLING BEAMS WITH VARIOUS SPAN TO DEPTH RATIOS CAN BE OBTAINED EASILY IN THE NEXT PART AN EXPERIMENTAL STUDY ON FULL SCALE RETROFITTING OF RC COUPLING BEAMS USING

BOLTED SIDE STEEL PLATES IS REPORTED THE STUDY REVEALED THAT EXTERNAL STEEL PLATE ATTACHMENT BY BOLTED CONNECTION COULD CONSIDERABLY ENHANCE THE STRENGTH DEFORMABILITY AND ENERGY DISSIPATION OF RC COUPLING BEAMS UNDER REVERSED CYCLIC LOADS PROVIDED THAT APPROPRIATE CONNECTION DETAILS AND ARRANGEMENTS WERE EMPLOYED THE EFFECTS OF LOCAL SLIP OF MECHANICAL BOLT CONNECTIONS AND BUCKLING OF STEEL PLATE COULD HAVE A SIGNIFICANT INFLUENCE ON THE LOAD CARRYING CAPACITY AND THE INELASTIC BEHAVIOR OF THE RETROFITTED COUPLING BEAMS DETAILED LABORATORY TESTS OF DYNAMIC SET BOLTS AND CAST IN BOLTS WERE THEN CONDUCTED TO INVESTIGATE THE LOAD SLIP BEHAVIOR OF THE CONNECTION THE INITIAL STIFFNESS OF DYNAMIC SET ANCHORS WAS FOUND TO BE MUCH HIGHER THAN THAT OF CAST IN ANCHORS AND THEREFORE DYNAMIC SET ANCHORS WERE CONSIDERED EFFECTIVE IN CONTROLLING EXCESSIVE BOLT SLIPS THE MEASURED NONLINEAR SLIP RELATIONSHIPS OF VARIOUS ANCHOR BOLTS WERE USED IN A SUBSEQUENT NONLINEAR FINITE ELEMENT ANALYSIS AND PARAMETRIC STUDY OF THE RETROFITTED BEAMS A SET OF GUIDELINES WITH RECOMMENDATIONS WAS DRAWN UP FOR THE DESIGN OF ANCHOR BOLT ARRANGEMENTS TWO ORIGINAL THEORETICAL MODELS BASED ON THE RIGID PLASTIC AND MIXED ANALYSES WERE ALSO DEVELOPED TO PREDICT THE LOAD CARRYING CA

THIS BOOK PRESENTS THE FUNDAMENTALS OF STRENGTHENING AND RETROFITTING APPROACHES SOLUTIONS AND TECHNOLOGIES FOR EXISTING STRUCTURES IT ADDRESSES IN DETAIL SPECIFIC TECHNIQUES FOR THE STRENGTHENING OF TRADITIONAL CONSTRUCTIONS REINFORCED CONCRETE BUILDINGS BRIDGES AND THEIR FOUNDATIONS FINALLY IT DISCUSSES ISSUES RELATED TO STANDARDS AND ECONOMIC DECISION SUPPORT TOOLS FOR RETROFITTING

FIB BULLETIN 35 IS THE FIRST BULLETIN TO PUBLISH DOCUMENTATION FROM AN FIB SHORT COURSE THESE COURSES ARE HELD WORLDWIDE AND COVER ADVANCED KNOWLEDGE OF STRUCTURAL CONCRETE IN GENERAL OR SPECIFIC TOPICS THEY ARE ORGANIZED BY FIB AND GIVEN BY INTERNATIONALLY RECOGNIZED EXPERTS IN FIB OFTEN SUPPLEMENTED WITH LOCAL EXPERTS ACTIVE IN FIB THEY ARE BASED ON THE KNOWLEDGE AND EXPERTISE FROM FIB S TEN COMMISSIONS AND NEARLY FIFTY TASK GROUPS FIB BULLETIN 35 PRESENTS THE COURSE MATERIALS DEVELOPED FOR THE SHORT COURSE RETROFITTING OF CONCRETE STRUCTURES THROUGH EXTERNALLY BONDED FRP WITH EMPHASIS ON SEISMIC APPLICATIONS GIVEN IN ANKARA AND ISTANBUL IN JUNE 2005 THE COURSE DREW ON EXPERTISE BOTH FROM OUTSIDE TURKEY AND FROM THE LARGE POOL OF LOCAL EXPERTS ON THIS SUBJECT IN MOST COUNTRIES OF THE WORLD THE BUILDING STOCK IS AGEING AND NEEDS CONTINUOUS MAINTENANCE OR REPAIR MOREOVER THE MAJORITY OF EXISTING CONSTRUCTIONS ARE DEFICIENT IN THE LIGHT OF CURRENT KNOWLEDGE AND DESIGN CODES THE PROBLEM OF STRUCTURAL DEFICIENCY OF EXISTING CONSTRUCTIONS IS ESPECIALLY ACUTE IN SEISMIC REGIONS AS EVEN THERE SEISMIC DESIGN OF STRUCTURES IS RELATIVELY RECENT THE DIRECT AND INDIRECT COSTS OF DEMOLITION AND RECONSTRUCTION OF STRUCTURALLY DEFICIENT CONSTRUCTIONS ARE OFTEN PROHIBITIVE FURTHERMORE THEY ENTAIL A SUBSTANTIAL WASTE OF NATURAL RESOURCES AND ENERGY THEREFORE STRUCTURAL RETROFITTING IS BECOMING INCREASINGLY WIDESPREAD THROUGHOUT THE WORLD EXTERNALLY BONDED FIBRE REINFORCED POLYMERS FRPS ARE RAPIDLY BECOMING THE TECHNIQUE OF CHOICE FOR STRUCTURAL RETROFITTING THEY ARE CLEANER AND EASIER TO APPLY THAN CONVENTIONAL RETROFITTING TECHNIQUES REDUCE DISRUPTION TO THE OCCUPANCY AND OPERATION OF THE FACILITY DO NOT GENERATE DEBRIS OR WASTE AND REDUCE HEALTH AND ACCIDENT HAZARDS AT THE CONSTRUCTION SITE AS WELL AS NOISE AND AIR POLLUTION IN THE SURROUNDINGS FIB BULLETIN 35 GIVES STATE OF THE ART COVERAGE OF RETROFITTING THROUGH FRPS AND PRESENTS RELEVANT PROVISIONS FROM THREE RECENT STANDARDISATION MILESTONES EN 1998 3 2005 EUROCODE 8 DESIGN OF STRUCTURES FOR EARTHQUAKE RESISTANCE PART 3 ASSESSMENT AND RETROFITTING OF BUILDINGS THE 2005 DRAFT OF THE TURKISH SEISMIC DESIGN CODE AND THE ITALIAN REGULATORY DOCUMENT CNR DT 200 04 INSTRUCTIONS FOR DESIGN EXECUTION AND CONTROL OF STRENGTHENING INTERVENTIONS BY MEANS OF FIBRE REINFORCED COMPOSITES 2004

ABSTRACT AN EXPERIMENTAL STUDY WILL BE CARRIED OUT TO DETERMINE THE SUITABILITY OF GREEN NATURAL FIBER REINFORCED POLYMER PLATES GNFRP MANUFACTURED WITH HEMP FIBERS WITH THE PURPOSE OF USING THEM AS STRUCTURAL MATERIALS FOR THE FLEXURAL STRENGTHENING OF REINFORCED CONCRETE RC BEAMS FOUR IDENTICAL RC BEAMS 96 INCHES LONG ARE TESTED FOR THE INVESTIGATION THREE CONTROL BEAMS AND ONE TEST BEAM THE FIRST THREE BEAMS ARE USED AS REFERENCES ONE UNREINFORCED ONE WITH ONE LAYER OF CARBON FIBER REINFORCED POLYMER CFRP ONE WITH TWO LAYERS OF CFRP AND ONE WITH N LAYERS OF THE PROPOSED ENVIRONMENTAL FRIENDLY GNFRP PLATES THE GOAL IS TO DETERMINE THE NUMBER OF GNFRP LAYERS NEEDED TO MATCH THE STRENGTH REACHED WITH ONE LAYER OF CFRP AND ONCE MATCHED ASSESS IF THE SYSTEM IS LESS EXPENSIVE THAN CFRP STRENGTHENING IF THIS IS THE CASE THIS STRENGTHENING SYSTEM COULD BE AN ALTERNATIVE TO THE CURRENTLY USED EXPENSIVE CFRP SYSTEMS

retrofitting of building structures including maintenance rehabilitation and strengthening is not only an important issue in urban construction and management but also a frequent problem to structural engineers in property management disciplines based on the contributors hands on experience retrofitting design of building structures covers

the preservation of heritage architecture is a cultural objective rigorously pursued by communities and nations wishing to promote their history civilisation and aesthetic achievements structures built in the remote past by traditional methods have suffered the consequences of extreme loading events such as earthquakes over long time periods retrofitting is an approach based on recent technological developments and scientific knowledge whereby modern construction methods and materials are applied to the repair and strengthening of historical structures this book aims to inform on current retrofitting techniques their application to various types of historical architecture and their effectiveness to fulfil their purpose retrofitted structural forms covered in the book vary widely from age old places of worship such as churches mosques and temples as well as castles and palaces to more modern distinguished private residences or public buildings some of them designed by well known architects their methods of construction range from traditional such as stone or brick masonry to more recent textile block systems and even reinforced concrete frameworks reference is made to detailed visual inspections of damaged structure providing valuable insight into possible causes of failure such inspections are usually combined with material characterisation which is an essential input to numerical modelling for assessing the behaviour of the structure before and after retrofitting the book describes strengthening techniques for masonry walls including re pointing injection grouting and the use of steel ties the use of reinforced concrete is proposed in the form of cast in place walls jackets or tie beams that of carbon fibre reinforced laminates for strengthening walls and slabs innovative use of materials such as shape memory alloys self compacting concrete or thin lead layers is also suggested particular attention is given to methods for moderating the consequences of destructive earthquakes seismic energy absorbing devices and base isolation systems are two effective means of providing protection against future seismic events although their application is often met with many technical challenges in practice retrofitting of heritage structures against earthquakes will be of interest to members of academic institutions government or private cultural preservation establishments and specialist consultant engineers the book contains very practical technical advice on many issues this would be of considerable interest to construction companies specialising in repairs and maintenance of historical structures

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