

thinking visible it expands the traditional design process teachers engage in by encouraging use of video game design techniques such as playtesting the author emphasizes designing curricular games for problem solving and warns against designing games that are simply alex trebek host of jeopardy wearing a mask by drawing on multiple fields such as systems thinking design theory assessment and curriculum design this book relies on theory to generate techniques for practice our dependence on internet connectivity literally comes back to haunt us in this gripping thriller in the life online series to prevent the greatest technology threat ever seen from starting a world war in this gripping thriller in the life online series what if your last text triggered the next world war in the near future the dead live on as virtual holograms interacting with humans through an omnipresent cyber network in washington dc heartbroken u s president arturo solar is recklessly communicating with an illegal copy of his dead daughter s digital conscience but his mourning is shattered when terrifying undetectable drones appear all over the world and in outer space global militaries are left defense less against the advanced machines capable of targeting and disarming any perceived threat but where did the drones come from and who is in control to his shock president solar realizes a connection no one else can see and scrambles to rally the world s last known thinkers to save the world from inevitable war kade laltanca the brilliant beautiful no nonsense commander of un special command is called back to dc to find and fix an inconceivable cyber conflict kade rallies a global team of technologists intelligence agents and diplomats to search the world for clues to stopping the cyber glitch but without the help of rogue technologists their greatest enemies and biggest rivals global law enforcement may stand no chance on their own the team must risk the entire infrastructure of global cybersecurity to align with rogue techs and their unpredictable friends in the battle for humanity s survival criss crossing the world from the amazon rainforest to the heat of cape canaveral and the bitter winter cold in moscow the unbroken line is a thrilling future fiction international adventure from earth to outer space this is book 2 in the unprecedented life online speculative science fiction thriller series about our battle to survive in the world we are now creating as we come to grips with the disturbing consequence of humanity s dependence on programmed machines and the visionary benefits of the technology each life online book can be read independently the life online series 1 the motion clue 2 the unbroken line 3 the probable cause 4 the downward shift fluid mechanics is a core component of many undergraduate engineering courses it is essential for both students and lecturers to have a comprehensive highly illustrated textbook full of exercises problems and practical applications to guide them through their study and teaching engineering fluid mechanics by william p grabel is that book the ise version of this comprehensive text is especially priced for the student market and is an essential textbook for undergraduates particularly those on mechanical and civil engineering courses designed to emphasis the physical aspects of fluid mechanics and to develop the analytical skills and attitudes of the engineering student example problems follow most of the theory to ensure that students easily grasp the calculations step by step processes outline the procedure used so as to improve the students problem solving skills an appendix is included to present some of the more general considerations involved in the design process the author also links fluid mechanics to other core engineering courses an undergraduate must take heat transfer thermodynamics mechanics of materials statistics and dynamics wherever possible to build on previously learned knowledge this casebook tackles the common psychiatric illnesses that physicians

experience during these early stages of their careers the cases carefully present guidelines for assessment and management along with clinical pearls and resources for further reference written by experts in the field the text is designed to be valuable for physicians engaged in medical education and training and specifically for the psychiatrists who provide care for other physicians each chapter includes a unique case and discussion topics include onset of a mood and or psychotic disorder life transitions trauma in care physician suicide anxiety and other issues that are part of the experience of young adults developing their personal and professional identities early career physician mental health and wellness is an excellent guide for all physicians interested in mental health and wellness including psychiatrists psychologists training directors hospital leadership mentors students residents and others most heat transfer texts include the same material conduction convection and radiation how the material is presented how well the author writes the explanatory and descriptive material and the number and quality of practice problems is what makes the difference even more important however is how students receive the text engineering heat transfer third edition provides a solid foundation in the principles of heat transfer while strongly emphasizing practical applications and keeping mathematics to a minimum new in the third edition coverage of the emerging areas of microscale nanoscale and biomedical heat transfer simplification of derivations of navier stokes in fluid mechanics moved boundary flow layer problems to the flow past immersed bodies chapter revised and additional problems revised and new examples pdf files of the solutions manual available on a chapter by chapter basis the text covers practical applications in a way that de emphasizes mathematical techniques but preserves physical interpretation of heat transfer fundamentals and modeling of heat transfer phenomena for example in the analysis of fins actual finned cylinders were cut apart fin dimensions were measures and presented for analysis in example problems and in practice problems the chapter introducing convection heat transfer describes and presents the traditional coffee pot problem practice problems the chapter on convection heat transfer in a closed conduit gives equations to model the flow inside an internally finned duct the end of chapter problems proceed from short and simple confidence builders to difficult and lengthy problems that exercise hard core problems solving ability now in its third edition this text continues to fulfill the author s original goal to write a readable user friendly text that provides practical examples without overwhelming the student using drawings sketches and graphs this textbook does just that pdf files of the solutions manual are available upon qualifying course adoptions this new text illuminates the essential information about health and social work critical to understanding today s complex health care systems and policies chapters highlight current practice policy and research in different settings and with special populations readers learn how to advocate for the individuals families and communities they serve to help improve health and well being for all all those interested in micro mezzo and macro practices in a healthcare setting will appreciate this rich resource highlights include each chapter speaks to the interconnections between practice policy and research and how they are integrated to inform social work and health unique chapters dedicated to special populations such as children and families older adults immigrants persons with hiv aids lgbtq individuals veterans and people with disabilities provide a deeper understanding of the health care issues specific to these groups thorough coverage of the role of social workers in a variety of settings such as substance abuse correctional systems public health and integrated behavioral health care an in depth discussion

of the values and ethical issues in a health care environment an intersectionality lens used throughout promotes a greater understanding of a client s multiple status of race ethnicity nationality socioeconomic status education level religion sexual orientation and gender identification detailed case examples developed by professionals in the field in parts ii and iii accompanied by discussion questions further enhance an understanding of the issues highlights how social workers advocate for social justice to promote good health and well being for all on line instructor s resources including power points how chapter content is tied to the 2015 cswe educational policy accreditation standards epas answers to discussion questions including approaches that instructors can use with cases and research as well as a sample syllabus with suggested options for instructors to modify for different courses intended as a core text for msw and advanced bsw courses on health and social work social work practice in health care health and wellness or integrative behavioral health taught in social work public health or gerontology programs this book is also of value in social work practice courses that focus on health care and special populations social workers practicing in the health care field will also appreciate this book assistive technology at is the term used to describe products or technology based services which support those with disabilities or other limitations to their daily activities enabling them to enjoy a better quality of life this book presents the proceedings of the 13th european conference on the advancement of assistive technology aaate 2015 held in budapest hungary in september 2015 this biennial conference has established itself as a leading forum in the transdisciplinary area of assistive technology providing a unique platform for the gathering of experts from around the world to review progress and challenges in the interdisciplinary fields which contribute to at such as research development manufacturing supply provision and policy the theme of the 2015 conference is attracting new areas and building bridges and this book contains 138 reviewed papers and 28 poster presentations delivered at the conference covering at themes as diverse as aging blindness mobility assisted living and accessibility for people with dementia and cognitive impairment offering a current overview of many aspects of at this book will be of interest to all those from researchers and manufacturers to healthcare professionals and end users whose work or daily life involves the relationship between technology and disability evaluation and treatment of neuropsychologically compromised children understanding clinical applications post luria and reitan defines what executive functions are discusses differences in executive functioning between normative children and those with special education needs identifies how best to perform neuropsychological assessments of executive function using both qualitative and quantitative measures and presents the best treatment interventions for improvement the book makes special note of the contributions of a r luria from russia and ralph m reitan from the us as the fathers of modern neuropsychology to help readers understand current advances in theory and clinical applications relating to executive function describes executive functioning in normative and special needs children outlines the contributions of luria and reitan relating them to current developments in executive function integrates qualitative and quantitative assessment measures covers adhd and executive functioning includes children of all ages through teens first published in 1999 when human populations and their needs change organizations responsible for their care inevitably react with the rapidly and significantly increased demand for chronic care at mid twentieth century solutions deemed satisfactory in the past were entirely inadequate thus community leaders and politicians began promoting

several approaches to long term care services in the two decades between 1945 and 1965 but without an adequate source of financing to establish an effective system in contrast to acute care services and despite the need chronic care remained unavailable and of poor quality this study consists of six chapters an introduction and conclusion along with four case studies that examine in detail the development of a long term care system in philadelphia between 1945 and 1965 this exciting addition to kay arthur and janna arndt s discover 4 yourself inductive bible studies for kids series leads young believers ages 8 12 on a journey to god s heart using the inductive study method and the wonder of an adventurous spy tale on this latest quest young adventurers along with their favorite characters max and molly uncover who god is by exploring his many names and what they mean discoveries from the bible memorable stories and clever mazes and activities unfold the names of god and his attributes such as creator protector provider healer shepherd ideal for sunday school classes bible study groups homeschoolers and individuals wild wild rake the next sweeping emotional witty and sharp romance in the cavensham heiresses series from beloved author janna macgregor her first marriage was an epic fail lady avalon warwyk never did love her husband arrogant selfish and cruel it s a blessing when she s widowed and left to raise her son all by herself finally avalon can live freely and do the work she loves helping fallen women become businesswomen she s lived these past ten years with no desire to remarry that is until mr devan farris comes to town can he convince her to take another chance at happily ever after devan farris charming vicar reputed rake and the brother of avalon s son s guardian is reluctantly sent to town to keep tabs on avalon and her son devan wishes he didn t have to meddle in her affairs he s not one to trod on a woman s independent nature and keen sense of convictions but she ll have nothing to do with a vicar with a wild reputation even though he s never given his heart and body to another if only he could find a way to show avalon who he really is on the inside a good true soul looking for its other half but how can prove that he wants to love and care for her until death do they part praise for the cavensham heiresses series full bodied romance with intelligence and heart new york times bestselling author cathy maxwell sparkling macgregor brings england s regency era to life publishers weekly structural behavior of reinforced concrete elements strongly depends on the interaction between the reinforcing bars and the surrounding concrete which is generally referred as bond in concrete in service conditions the reinforcement to concrete bond governs deformability through the tension stiffening of concrete surrounding the bar as well the crack development and crack width at ultimate limit state bond governs anchorage and lap splices behavior as well as structural ductility when plain smooth bars were used the steel to concrete bond was mainly associated with chemical adhesion friction that is related to the surface roughness of the rebar as steel strengths increased the need to enhance interaction between steel and the surrounding concrete was recognized and square twisted rebars indented rebars or later on ribbed rebars came into the market the latter being the type of deformed bar most commonly adopted since the 1960 70s when ribbed rebars became widely used several research studies started worldwide for better understanding the interaction between ribs and the surrounding concrete researchers evidenced the development of micro cracks due to the wedge action of the ribs towards the external face of the structural element if confinement is provided by the concrete cover by transverse reinforcement or by an external transverse pressure the full anchorage capacity is guaranteed and a pull out failure occurs with crushing of concrete between the ribs on the

contrary with lesser confining action a splitting failure of bond occurs the latter may provoke a brittle failure of the lap splice or in some cases of anchorages however after many years of research studies on bond related topics there are still several open issues in fact new materials entered into the market as concrete with recycled aggregates or fibre reinforced concrete the latter having a kind of distributed reinforcement into the matrix the fibres provides a better confinement to the wedge action of the ribs in addition concrete and steel strength continuously increased over the years causing changes in the bond behavior due to differences in mechanical properties of materials but also to the different concrete composition at the interface with the steel rebar causing a different bond behavior moreover the lower water cement ratio of these high strength concrete makes the bleeding phenomena less evident changing the concrete porosity in the upper layers of the structural element and thus making the current casting position parameters no longer reliable finally concrete with recycled aggregates are becoming more important in a market that is looking forward to a circular economy as such all the experimental results and database that allowed the calibration of bond rules now present in building codes for conventional concrete may be not be representative of these new types of materials nowadays adopted in practice furthermore after more than 50 years of service life structural elements may not satisfy the current safety requirements for several reasons including material degradation with particular reference to steel corrosion or increased loads by also considering the seismic actions that were non considered by building codes at the time of the original design the structural assessment of existing structures requires proper conceptual models and new approaches for evaluating the reliability of existing structures by also considering the remaining expected service life in addition specific rules for older materials as plain smooth bars should be revised for a better assessment of old structures last but not least interventions in existing structures may require new technologies now available such as post installed rebars while many advances have been achieved there remain areas where a better understanding of bond and its mechanisms are required and where further work is required to incorporate this understanding into safe and economic rules to guide construction and maintenance of existing infrastructures these aspects were widely discussed within the technical community particularly in the fib task group 2 5 and in the aci 408 committee dealing with bond and anchorage issues furthermore special opportunities for discussing bond developments were represented by the international conferences on bond in concrete held each decade since 1982 as well as by joint workshops organized by fib tg2 5 and aci 408 within this technical collaboration this bulletin was conceived and thus it collects selected papers presented at the joint fib aci convention session on bond in concrete held in detroit usa in 2017 the bulletin is based on four main sections concerning general aspects of bond anchorages and laps of bars and prestressing tendons bond under severe conditions degradation of bond for corrosion bond in new types of concrete the main aim of the bulletin is to shed some new lights on the advances in understanding and application of bond related issues achieved over the last few years and identify the challenges and priorities to be addressed in the next years another important aspect of the bulletin is to provide practical information from research findings infoworld is targeted to senior it professionals content is segmented into channels and topic centers infoworld also celebrates people companies and projects integrated business projects is a business simulation designed to help reinforce and build software skills improve internet skills and develop teamwork and critical thinking skills

students will work as an administrative assistant at star river adventures a company that provides whitewater rafting excursions and other outdoor adventures students will learn about the operation of a small business as he she works in various departments and for the owner of the company integrated business projects is designed as a complete course but may be used to complement and enhance technology courses publisher

thinking visible it expands the traditional design process teachers engage in by encouraging use of video game design techniques such as playtesting the author emphasizes designing curricular games for problem solving and warns against designing games that are simply alex trebek host of jeopardy wearing a mask by drawing on multiple fields such as systems thinking design theory assessment and curriculum design this book relies on theory to generate techniques for practice

Mergent International Manual 2009 our dependence on internet connectivity literally comes back to haunt us in this gripping thriller in the life online series to prevent the greatest technology threat ever seen from starting a world war in this gripping thriller in the life online series what if your last text triggered the next world war in the near future the dead live on as virtual holograms interacting with humans through an omnipresent cyber network in washington dc heartbroken u s president arturo solar is recklessly communicating with an illegal copy of his dead daughter s digital conscience but his mourning is shattered when terrifying undetectable drones appear all over the world and in outer space global militaries are left defense less against the advanced machines capable of targeting and disarming any perceived threat but where did the drones come from and who is in control to his shock president solar realizes a connection no one else can see and scrambles to rally the world s last known thinkers to save the world from inevitable war kade laltanca the brilliant beautiful no nonsense commander of un special command is called back to dc to find and fix an inconceivable cyber conflict kade rallies a global team of technologists intelligence agents and diplomats to search the world for clues to stopping the cyber glitch but without the help of rogue technologists their greatest enemies and biggest rivals global law enforcement may stand no chance on their own the team must risk the entire infrastructure of global cybersecurity to align with rogue techs and their unpredictable friends in the battle for humanity s survival criss crossing the world from the amazon rainforest to the heat of cape canaveral and the bitter winter cold in moscow the unbroken line is a thrilling future fiction international adventure from earth to outer space this is book 2 in the unprecedented life online speculative science fiction thriller series about our battle to survive in the world we are now creating as we come to grips with the disturbing consequence of humanity s dependence on programmed machines and the visionary benefits of the technology each life online book can be read independently the life online series 1 the motion clue 2 the unbroken line 3 the probable cause 4 the downward shift

Anatomy and Physiology for the Manual Therapies 2009-08-17 fluid mechanics is a core component of many undergraduate engineering courses it is essential for both students and lecturers to have a comprehensive highly illustrated textbook full of exercises problems and practical applications to guide them through their study and teaching engineering fluid mechanics by william p grabel is that book the ise version of this comprehensive text is especially priced for the student market and is an essential textbook for undergraduates particularly those on mechanical and civil engineering courses designed to emphasis the physical aspects of fluid mechanics and to develop the analytical skills and attitudes of the engineering student example problems follow most of the theory to ensure that students easily grasp the calculations step by step processes outline the procedure used so as to improve the students problem solving skills an appendix is included to present some of the more general considerations involved in the design process the author also links fluid mechanics to other

core engineering courses an undergraduate must take heat transfer thermodynamics mechanics of materials statistics and dynamics wherever possible to build on previously learned knowledge

Canadian Books in Print 1999 this casebook tackles the common psychiatric illnesses that physicians experience during these early stages of their careers the cases carefully present guidelines for assessment and management along with clinical pearls and resources for further reference written by experts in the field the text is designed to be valuable for physicians engaged in medical education and training and specifically for the psychiatrists who provide care for other physicians each chapter includes a unique case and discussion topics include onset of a mood and or psychotic disorder life transitions trauma in care physician suicide anxiety and other issues that are part of the experience of young adults developing their personal and professional identities early career physician mental health and wellness is an excellent guide for all physicians interested in mental health and wellness including psychiatrists psychologists training directors hospital leadership mentors students residents and others

□□□□□□□□ 1998 most heat transfer texts include the same material conduction convection and radiation how the material is presented how well the author writes the explanatory and descriptive material and the number and quality of practice problems is what makes the difference even more important however is how students receive the text engineering heat transfer third edition provides a solid foundation in the principles of heat transfer while strongly emphasizing practical applications and keeping mathematics to a minimum new in the third edition coverage of the emerging areas of microscale nanoscale and biomedical heat transfer simplification of derivations of navier stokes in fluid mechanics moved boundary flow layer problems to the flow past immersed bodies chapter revised and additional problems revised and new examples pdf files of the solutions manual available on a chapter by chapter basis the text covers practical applications in a way that de emphasizes mathematical techniques but preserves physical interpretation of heat transfer fundamentals and modeling of heat transfer phenomena for example in the analysis of fins actual finned cylinders were cut apart fin dimensions were measures and presented for analysis in example problems and in practice problems the chapter introducing convection heat transfer describes and presents the traditional coffee pot problem practice problems the chapter on convection heat transfer in a closed conduit gives equations to model the flow inside an internally finned duct the end of chapter problems proceed from short and simple confidence builders to difficult and lengthy problems that exercise hard core problems solving ability now in its third edition this text continues to fulfill the author s original goal to write a readable user friendly text that provides practical examples without overwhelming the student using drawings sketches and graphs this textbook does just that pdf files of the solutions manual are available upon qualifying course adoptions

A Guide to Designing Curricular Games 2016-10-19 this new text illuminates the essential information about health and social work critical to understanding today s complex health care systems and policies chapters highlight current practice policy and research in different settings and with special populations readers learn how to advocate for the individuals families and communities they serve to help improve health and well being for all all those interested in micro mezzo and macro practices in a healthcare setting will appreciate this rich resource

highlights include each chapter speaks to the interconnections between practice policy and research and how they are integrated to inform social work and health unique chapters dedicated to special populations such as children and families older adults immigrants persons with hiv aids lgbtq individuals veterans and people with disabilities provide a deeper understanding of the health care issues specific to these groups thorough coverage of the role of social workers in a variety of settings such as substance abuse correctional systems public health and integrated behavioral health care an in depth discussion of the values and ethical issues in a health care environment an intersectionality lens used throughout promotes a greater understanding of a client s multiple status of race ethnicity nationality socioeconomic status education level religion sexual orientation and gender identification detailed case examples developed by professionals in the field in parts ii and iii accompanied by discussion questions further enhance an understanding of the issues highlights how social workers advocate for social justice to promote good health and well being for all on line instructor s resources including power points how chapter content is tied to the 2015 cswe educational policy accreditation standards epas answers to discussion questions including approaches that instructors can use with cases and research as well as a sample syllabus with suggested options for instructors to modify for different courses intended as a core text for msw and advanced bsw courses on health and social work social work practice in health care health and wellness or integrative behavioral health taught in social work public health or gerontology programs this book is also of value in social work practice courses that focus on health care and special populations social workers practicing in the health care field will also appreciate this book

Mergent Company Archives Manual 2006 assistive technology at is the term used to describe products or technology based services which support those with disabilities or other limitations to their daily activities enabling them to enjoy a better quality of life this book presents the proceedings of the 13th european conference on the advancement of assistive technology aaate 2015 held in budapest hungary in september 2015 this biennial conference has established itself as a leading forum in the transdisciplinary area of assistive technology providing a unique platform for the gathering of experts from around the world to review progress and challenges in the interdisciplinary fields which contribute to at such as research development manufacturing supply provision and policy the theme of the 2015 conference is attracting new areas and building bridges and this book contains 138 reviewed papers and 28 poster presentations delivered at the conference covering at themes as diverse as aging blindness mobility assisted living and accessibility for people with dementia and cognitive impairment offering a current overview of many aspects of at this book will be of interest to all those from researchers and manufacturers to healthcare professionals and end users whose work or daily life involves the relationship between technology and disability

Scientific and Technical Books and Serials in Print 1989 evaluation and treatment of neuropsychologically compromised children understanding clinical applications post luria and reitan defines what executive functions are discusses differences in executive functioning between normative children and those with special education needs identifies how best to perform neuropsychological assessments of executive function using both qualitative and quantitative measures and presents the best treatment interventions for improvement the book makes special note of the contributions of a r luria from russia and ralph m reitan from the us

as the fathers of modern neuropsychology to help readers understand current advances in theory and clinical applications relating to executive function describes executive functioning in normative and special needs children outlines the contributions of luria and reitan relating them to current developments in executive function integrates qualitative and quantitative assessment measures covers adhd and executive functioning includes children of all ages through teens

The Unbroken Line 2015-10-31 first published in 1999 when human populations and their needs change organizations responsible for their care inevitably react with the rapidly and significantly increased demand for chronic care at mid twentieth century solutions deemed satisfactory in the past were entirely inadequate thus community leaders and politicians began promoting several approaches to long term care services in the two decades between 1945 and 1965 but without an adequate source of financing to establish an effective system in contrast to acute care services and despite the need chronic care remained unavailable and of poor quality this study consists of six chapters an introduction and conclusion along with four case studies that examine in detail the development of a long term care system in philadelphia between 1945 and 1965

Subject Guide to Books in Print 1997 this exciting addition to kay arthur and janna arndt s discover 4 yourself inductive bible studies for kids series leads young believers ages 8 12 on a journey to god s heart using the inductive study method and the wonder of an adventurous spy tale on this latest quest young adventurers along with their favorite characters max and molly uncover who god is by exploring his many names and what they mean discoveries from the bible memorable stories and clever mazes and activities unfold the names of god and his attributes such as creator protector provider healer shepherd ideal for sunday school classes bible study groups homeschoolers and individuals

Engineering Fluid Mechanics 2018-10-08 wild wild rake the next sweeping emotional witty and sharp romance in the cavensham heiresses series from beloved author janna macgregor her first marriage was an epic fail lady avalon warwyk never did love her husband arrogant selfish and cruel it s a blessing when she s widowed and left to raise her son all by herself finally avalon can live freely and do the work she loves helping fallen women become businesswomen she s lived these past ten years with no desire to remarry that is until mr devan farris comes to town can he convince her to take another chance at happily ever after devan farris charming vicar reputed rake and the brother of avalon s son s guardian is reluctantly sent to town to keep tabs on avalon and her son devan wishes he didn t have to meddle in her affairs he s not one to trod on a woman s independent nature and keen sense of convictions but she ll have nothing to do with a vicar with a wild reputation even though he s never given his heart and body to another if only he could find a way to show avalon who he really is on the inside a good true soul looking for its other half but how can prove that he wants to love and care for her until death do they part praise for the cavensham heiresses series full bodied romance with intelligence and heart new york times bestselling author cathy maxwell sparkling macgregor brings england s regency era to life publishers weekly

Early Career Physician Mental Health and Wellness 2019-03-13 structural behavior of reinforced concrete elements strongly depends on the interaction between the reinforcing bars and the surrounding concrete which is generally referred as bond in concrete in service conditions the reinforcement to concrete bond governs deformability through the tension

stiffening of concrete surrounding the bar as well the crack development and crack width at ultimate limit state bond governs anchorage and lap splices behavior as well as structural ductility when plain smooth bars were used the steel to concrete bond was mainly associated with chemical adhesion friction that is related to the surface roughness of the rebar as steel strengths increased the need to enhance interaction between steel and the surrounding concrete was recognized and square twisted rebars indented rebars or later on ribbed rebars came into the market the latter being the type of deformed bar most commonly adopted since the 1960 70s when ribbed rebars became widely used several research studies started worldwide for better understanding the interaction between ribs and the surrounding concrete researchers evidenced the development of micro cracks due to the wedge action of the ribs towards the external face of the structural element if confinement is provided by the concrete cover by transverse reinforcement or by an external transverse pressure the full anchorage capacity is guaranteed and a pull out failure occurs with crushing of concrete between the ribs on the contrary with lesser confining action a splitting failure of bond occurs the latter may provoke a brittle failure of the lap splice or in some cases of anchorages however after many years of research studies on bond related topics there are still several open issues in fact new materials entered into the market as concrete with recycled aggregates or fibre reinforced concrete the latter having a kind of distributed reinforcement into the matrix the fibres provides a better confinement to the wedge action of the ribs in addition concrete and steel strength continuously increased over the years causing changes in the bond behavior due to differences in mechanical properties of materials but also to the different concrete composition at the interface with the steel rebar causing a different bond behavior moreover the lower water cement ratio of these high strength concrete makes the bleeding phenomena less evident changing the concrete porosity in the upper layers of the structural element and thus making the current casting position parameters no longer reliable finally concrete with recycled aggregates are becoming more important in a market that is looking forward to a circular economy as such all the experimental results and database that allowed the calibration of bond rules now present in building codes for conventional concrete may be not be representative of these new types of materials nowadays adopted in practice furthermore after more than 50 years of service life structural elements may not satisfy the current safety requirements for several reasons including material degradation with particular reference to steel corrosion or increased loads by also considering the seismic actions that were non considered by building codes at the time of the original design the structural assessment of existing structures requires proper conceptual models and new approaches for evaluating the reliability of existing structures by also considering the remaining expected service life in addition specific rules for older materials as plain smooth bars should be revised for a better assessment of old structures last but not least interventions in existing structures may require new technologies now available such as post installed rebars while many advances have been achieved there remain areas where a better understanding of bond and its mechanisms are required and where further work is required to incorporate this understanding into safe and economic rules to guide construction and maintenance of existing infrastructures these aspects were widely discussed within the technical community particularly in the fib task group 2 5 and in the aci 408 committee dealing with bond and anchorage issues furthermore special opportunities for discussing bond developments were represented by the international conferences on bond in

concrete held each decade since 1982 as well as by joint workshops organized by fib tg2 5 and aci 408 within this technical collaboration this bulletin was conceived and thus it collects selected papers presented at the joint fib aci convention session on bond in concrete held in detroit usa in 2017 the bulletin is based on four main sections concerning general aspects of bond anchorages and laps of bars and prestressing tendons bond under severe conditions degradation of bond for corrosion bond in new types of concrete the main aim of the bulletin is to shed some new lights on the advances in understanding and application of bond related issues achieved over the last few years and identify the challenges and priorities to be addressed in the next years another important aspect of the bulletin is to provide practical information from research findings

Moody's International Manual 2000 infoworld is targeted to senior it professionals content is segmented into channels and topic centers infoworld also celebrates people companies and projects

Data Sources 2000 integrated business projects is a business simulation designed to help reinforce and build software skills improve internet skills and develop teamwork and critical thinking skills students will work as an administrative assistant at star river adventures a company that provides whitewater rafting excursions and other outdoor adventures students will learn about the operation of a small business as he she works in various departments and for the owner of the company integrated business projects is designed as a complete course but may be used to complement and enhance technology courses publisher

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Mergent Industrial Manual 2000

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Advances on bond in concrete 2003-04

Forthcoming Books 1995-06-05

InfoWorld 1992-12

Resources in Education 2001-01

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