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the design of structures in general and prestressed concrete structures in particular requires considerably more information than is contained in building codes a sound understanding of structural behaviour at all stages of loading is essential this textbook presents a detailed description and explanation of the behaviour of prestressed concrete members and structures both at service loads and at ultimate loads and in doing so provides a comprehensive and up to date guide to structural design much of the text is based on first principles and relies only on the principles of mechanics and the properties of concrete and steel with numerous worked examples however where the design requirements are code specific this book refers to the provisions of the Australian standard for concrete structures AS3600 2009 and where possible the notation is the same as in AS3600 2009 a parallel volume is written to Eurocode 2 the European standard for the design of concrete structures the text runs from an introduction to the fundamentals to in depth treatments of more advanced topics in modern prestressed concrete structures it suits senior undergraduate and graduate students and also practising engineers who want a comprehensive guide to the design of prestressed concrete structures it retains the clear and concise explanations and the easy to read style of the first edition but the content has been extensively reorganised and considerably expanded and updated new chapters cover design procedures actions and loads prestressing systems and

~~construction requirements and connections and detailing the topic of serviceability~~

is developed extensively throughout the authors have been researching and teaching the behaviour and design of prestressed concrete structures for more than 35 years and this updated edition of the book reflects this wealth of experience the work has also gained much from ian gilbert s active and long time involvement in the development of the australian standards for concrete structures as3600 2009 and concrete bridges as5100 5 2012

reinforced and prestressed concrete is the most comprehensive up to the minute text for students and instructors in civil and structural engineering and for practising engineers requiring a full grasp of the latest australian concrete structures standard as3600 2009 topics are presented in detail covering the theoretical and practical aspects of analysis and design with an emphasis on the application of as3600 2009 the first major national code to embrace the use of high strength concrete of up to 100 mpa the latest standard also includes major technological upgrades new analysis and design formulas and new and more elaborate processes this text addresses all such advances and features chapters on bending shear torsion bond deflection and cracking beams slabs columns walls footings pile caps and retaining walls as well as prestressed beams and end blocks plus an exposition on strut and tie modelling

the book addresses the problem of ageing infrastructure and how ageing can reduce the service life below expected levels the rate of ageing is affected by the type of construction material environmental exposure function of the infrastructure and loading each of these factors is considered in the assessment of ageing how do international design codes address ageing predictive models of ageing behaviour are available and the different types empirical deterministic and probabilistic are discussed in a whole of life context life cycle plans initiated at the design stage can ensure that the design life is met while optimising the

management of the asset reducing life cycle costs and reducing the environmental footprint due to less maintenance remediation interventions and fewer unplanned stoppages and delays health monitoring of infrastructure can be conducted via implanted probes wired or wireless or by non destructive testing that can routinely measure the durability loading and exposure environments at key locations around the facility routine monitoring can trigger preventative maintenance that can extend the life of the infrastructure and minimise unplanned and reactive remediation while also providing ongoing data that can be utilised towards more durable future construction future infrastructure will need to be safe and durable financially and environmentally sustainable over the lifecycle thereby raising socio economic wellbeing the book concludes by discussing the key impacting factors that will need to be addressed the author brings a strong academic and industry background to present a resource for academics and practitioners wishing to address the ageing of built infrastructure

maintenance safety risk management and life cycle performance of bridges contains lectures and papers presented at the ninth international conference on bridge maintenance safety and management iabmas 2018 held in melbourne australia 9 13 july 2018 this volume consists of a book of extended abstracts and a usb card containing the full papers of 393 contributions presented at iabmas 2018 including the t y lin lecture 10 keynote lectures and 382 technical papers from 40 countries the contributions presented at iabmas 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management and life cycle performance major topics include new design methods bridge codes heavy vehicle and load models bridge management systems prediction of future traffic models service life prediction residual service life sustainability and life cycle assessments maintenance strategies bridge diagnostics health monitoring non destructive testing field testing safety and serviceability assessment and evaluation damage

~~identification deterioration modelling repair and retrofitting strategies bridge~~  
reliability fatigue and corrosion extreme loads advanced experimental simulations and advanced computer simulations among others this volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of more rational decision making on bridge maintenance safety risk management and life cycle performance of bridges for the purpose of enhancing the welfare of society the editors hope that these proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students researchers and engineers from all areas of bridge engineering

a collection of problems solutions and practical examples for php programmers the book contains a unique and extensive collection of best practices for everyday php programming dilemmas for every problem addressed in the book there s a worked out solution or recipe a short focused piece of code you can insert directly into your application however this book offers more than cut and paste code you also get explanations of how and why the code works so you can learn to adapt the problem solving techniques to similar situations the recipes in the php cookbook range from simple tasks such as sending a database query and fetching urls to entire programs that demonstrate complex tasks such as printing html tables and generating bar charts this book contains an impressive collection of useful code for php programmers from novices to advanced practitioners instead of poking around mailing lists online documentation and other sources you can rely on the php cookbook to provide quick solutions to common problems so you can spend your time on those out of the ordinary problems specific to your application

the subject of earthquake engineering has been the focus of my teaching and research for many years thus when mario paz the editor of this handbook asked

~~me to write a foreword i was interested and honored by his request~~ worldwide people are beginning to understand the severity of the danger to present and future generations caused by the destruction of the environment earthquakes pose a similar threat thus the proper use of methods for earthquake resistant design and construction is vitally important for countries that are at high risk of being subjected to strong motion earthquakes most seismic activity is the result of tectonic earthquakes tectonic earthquakes are very special events in that although they occur frequently their probability of becoming natural hazards for a specific urban area is very small when a severe earthquake does occur near an urban area however its consequences are very large in terms of structural destruction and human suffering

the 4th pacific structural steel conference held in singapore between 25th and 27th october 1995 aims to disseminate the latest information data expertise and technology related to design performance and construction of steel structures including steel bridges tubular structures marine and offshore structures space frames and tall buildings the papers published in these three volumes provide an essential reference source for all those involved with the design of steel structures

concrete structures provides an easy to understand integrated and comprehensive treatment of the behaviour analysis and design of reinforced concrete and prestressed concrete structures concrete structures is the definitive australia textbook on concrete structures for students and professionals

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