

The loss is about 0.5% of the initial prestress, and is sometimes neglected in practice.

4. Due to shrinkage

5. Due to creep -- creep losses may be reduced by stressing at as late a date as possible. Creep is one of the larger losses.

6. Due to relaxation of the prestressing steel

Relaxation information should be obtained from the manufacturer. SABS 0100 states that the loss should not be less than the 1000 hour relaxation figure. (BS8110 gives multipliers varying from 1.5 to 2.0 on the 1000 hour figures). If the manufacturers figures are not available, a loss varying between 10% at an initial prestress of 80% to 3% for an initial prestress of 50% of characteristic strength may be assumed. For low-relaxation strand normally available, losses of 3% to 4% are commonly used.

Adequate information about items 1 to 5 is given in the codes.

Loss due to friction may be split into 2 parts, one due to 'wobble' in the sheath, which occurs even if the tendon is straight, and one due to curvature of the tendon. 'Wobble' may be attributed to the tendons sagging between supports, and thus causing additional curvature.

The effective prestress at any distance x immediately after stressing, and before the anchorage is set and 'draw-in' occurs

is given by $P_x = P_o e^{-[kx + \theta x]}$ where k is the 'wobble' factor, x is the length, θ is the total angle that the tendon has turned through in radians, and μ is the friction factor.

For the unbonded tendons used locally, the value for k is often taken as .0025, (see SABS 0100). μ is sometimes taken as 0.12 for the type of tendon and sheath used locally, although CP110 gives 0.25. Report 17 gives 0.12.

FIP recommends $\mu = 0.05$, and $k = .001$, which is considerably less, but is justified for greased tendons. It is noted that some prestressing suppliers use $k = .00025$, and $\mu = .06$, based on tests.

The committee recommends $k = .001$, and $\mu = .06$ for strand available locally.

The angle turned through may be calculated by the simple geometry of the parabolas, since the tangent to a parabola passes through a point equal to the drupe of the parabola below the mid point.

In the diag. in Appendix A (From Fig. 73 report 25) the angle θ at mid span is given by

$$\text{Arctan}(2c_1/a_1) + \text{Arctan}(2(b_1 - b_2 - c_1)/(x - a_1))$$

An alternative way to calculate friction losses is to calculate the lateral pressure on the concrete due to the tendon curvature (this is normally done to calculate the moments due to prestress), and multiply the lateral pressure by the coefficient of friction. (See 'Friction losses ...by equivalent load method. E. Keyder, PCI Journal March-April 1990). It is difficult to take account of 'wobble' by this method unless an equivalent angle is added to allow for it.

The loss due to 'draw-in' is calculated on the assumption that the loss of prestress due to friction is a straight line. (See example in report 25, p36).

If the 'wedge set' or 'draw-in' is x mm, (usually 4 to 8mm) then it is assumed that friction acts in the opposite direction and if the prestress

loss is γ , and the length over which the

loss occurs is L , then if the prestress loss/metre is m (kN/m)

$$\text{now } \gamma = L/2AE = x$$

$$\text{but } \gamma = 2mL$$

$$\text{Therefore } mL^2/AE = x$$

$$\text{and } L = \sqrt{AE x / m}$$

$$\text{then } P_r = P_o - 2mL$$

i.e. knowing x, m , calculate L , then knowing P_o calculate P_r

which gives the final prestress after draw-in losses, but before losses due to shrinkage and creep.

From this the other losses are deducted to give the final prestress. For short spans the wedge-set effect is important. With greased tendons, there is a tendency for the stress in the tendon to even out over a period of time, but it is considered that a low values for friction takes account of this.



Diagram 6.8

Design Of Prestressed Concrete Flat Slabs Structures

M.Z. Cohn



Design Of Prestressed Concrete Flat Slabs Structures:

Design of Prestressed Concrete R. I. Gilbert, Neil C. Mickleborough, 1990-09-13 Providing both an introduction to basic concepts and an in depth treatment of the most up to date methods for the design and analysis of concrete of structures Design of Prestressed Concrete will service the needs of both students and professional engineers *Recommendations for the design of flat slabs in post tension concrete using unbonded and bonded tendons* FIB - International Federation for Structural Concrete, 1980-05-01 These recommendations present a guide to the design of two way spanning post tensioned concrete flat slabs using unbonded or bonded tendons Recommendations purely related to the use of unbonded tendons are clearly marked These recommendations are intended only for the design of post tensioned flat slabs in buildings and do not include the use in bridges Post tensioned concrete construction can be defined as unbonded or bonded depending on whether the tendon ducts are filled with a cement grout in order to provide a bonded structure or whether the tendons are suitably coated and wrapped or greased and plastic covered unbonded While in a number of countries e g United States and Canada economic and construction considerations have resulted in the selection of unbonded tendons in other countries the use of the traditional bonded tendons is favoured e g Australia Some of the advantages claimed for the use of unbonded tendons can be summarized as follows Extremely low friction values tendons are fully protected against corrosion during construction maximum possible tendon drape due to the small diameter of the tendon this is of major importance in slender structures such as flat plates simple and fast placement of the tendons avoidance of grouting operations When tendons are grouted after stressing the claimed advantages are particularly that the bond between the concrete structure and the tendons increases the ultimate strength and less reliance is placed on the long term adequacy of the anchorage **Precast Prestressed Concrete for Building Structures** Kim S. Elliott, Mark Magill, 2024-03-21 This guide to precast prestressed concrete PSC introduces and applies principles for the design of PSC slabs thermal slabs beam and block flooring and main beams including where appropriate cantilevers and composite and continuous construction The book provides numerous worked examples for a wide range of PSC elements and covers the innovative use of PSC on several projects in the UK over the past ten years drawing on the authors first hand experience in the design and manufacture of special products The contents are in line with latest revisions of the Eurocodes and European Product Standards Precast Prestressed Concrete for Building Structures is ideal for consulting structural engineers clients PSC manufacturers and advanced undergraduate and graduate students both as a guide and a textbook *Advances in Concrete Slab Technology* Ravindra K. Dhir OBE, John G. L. Munday, 2014-05-18 *Advances in Concrete Slab Technology* documents the proceedings of the International Conference on Concrete Slabs held at Dundee University on April 3 6 1979 This book discusses the influence of steel fiber reinforcement on the shear strength of slab column connections sulfur treated concrete slabs yield line analysis of orthotropically reinforced exterior panels of flat slab floors and behavior of flat slab edge column joints The design of multiple panel flat slab structures

structural behavior of floor slabs in shear wall buildings shrinkage and cracking of concrete at early ages and slab construction for HAB system modules are also elaborated This text likewise covers the direct finishing of concrete slabs using the early age power grinding technique application of vacuum dewatering to in situ slab production retexturing of concrete slabs and fatigue resistance of composite precast and in situ concrete floors This publication is a good reference for students and individuals concerned with the practices and research relating to slab technology **Concrete Slabs** L.A. Clarke,R J Cope,R.J. Cope,1984-06-26 Although the beginning of man s ability to predict the behaviour of slabs dates from the Napoleonic era analysis and design of reinforced concrete slabs are still active areas of research Reinforced concrete slabs were first built on a regular basis at the start of the twentieth century while prestressing has become popular during the last twenty years Despite the enormous experience gained in this time there is still no general agreement on the best design procedures In this text the basic equations governing slab behaviour are clearly explained Methods of solution in use before the advent of computers are briefly described and illustrated Numerical procedures capable of solving slabs of almost any geometry are then described in detail and computer programs are provided for use To enable these methods to be used for approximate analyses of common forms of pseudo slab construction recommendations on the necessary structural idealisations are provided **1st fib Congress in Osaka Japan Vol1** FIB – International Federation for Structural Concrete,2002-01-01 *Structural Design of Buildings* Feng Fu,David Richardson,2024-07-12 *Structural Design of Buildings* Elemental Design is the essential reference for all structural engineers involved in the design of buildings and other structures The book forms part of the *Structural Design of Buildings* series and focuses on the introduction of building elements and materials *Handbook of AI-based Metaheuristics* Anand J. Kulkarni,Patrick Siarry,2021-09-01 At the heart of the optimization domain are mathematical modeling of the problem and the solution methodologies The problems are becoming larger and with growing complexity Such problems are becoming cumbersome when handled by traditional optimization methods This has motivated researchers to resort to artificial intelligence AI based nature inspired solution methodologies or algorithms The *Handbook of AI based Metaheuristics* provides a wide ranging reference to the theoretical and mathematical formulations of metaheuristics including bio inspired swarm based socio cultural and physics based methods or algorithms their testing and validation along with detailed illustrative solutions and applications and newly devised metaheuristic algorithms This will be a valuable reference for researchers in industry and academia as well as for all Master s and PhD students working in the metaheuristics and applications domains **Partial Prestressing, From Theory to Practice** M.Z. Cohn,2012-12-06 These volumes contain the edited documents presented at the NATO Sponsored Advanced Research Workshop ARW on Partial Pre8tre88ing from Theory to Practice held at the CEBTP Research Centre of Saint Remy les Chevreuse France June 18 22 1984 The workshop was a direct extension of the International Symposium on Nonlinearity and Continuity in Pre8tre88ed Concrete organized by the editor at the University of Waterloo Waterloo Canada July 4 6 1983

The organization of the NATO ARW on Partial Prestressing was prompted by the need to explain and reduce the wide differences of expert opinion on the subject which make more difficult the acceptance of partial prestressing by the profession at large. Specifically the workshop attempted to produce a more unified picture of partial prestressing by confronting and where possible reconciling some conflicting American and European views on this subject. Bring theoretical advances on partial prestressing within the grasp of engineering practice provide the required background for developing some guidelines on the use of partial prestressing in agreement with existing structural concrete standards. The five themes selected for the workshop agenda were 1 Problems of Partially Prestressed Concrete 2 Partially Prestressed Concrete Members Static Loading 3 PPC Members Repeated and Dynamic Loadings 4 Continuity in Partially Prestressed Concrete 5 Practice of Partial Prestressing

Builder's Reference Book Leslie Black, 2003-09-02 A comprehensive guide to information sources relevant to the building industry and legislation affecting it. It is designed for use as a tool either in the office or on site giving facts in a compendium style to meet the most common requirements of the busy builder.

Recent Advances in Structural Engineering K. S. Sreekesava, Sreevalsa Kolathayar, N. Vinod Chandra Menon, 2024-03-27 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India. The topics covered in this book include innovative design approaches, advanced materials and cutting edge technologies aimed at enhancing the resilience of structures against various hazards such as seismic events, hurricanes, floods and extreme weather conditions. It also covers topics such as structural integrity and longevity of buildings and infrastructure, advanced monitoring systems, data analytics and intelligent structural health monitoring. This book is useful for researchers and professionals in the field of structural engineering.

Advanced Materials and Techniques for Reinforced Concrete Structures Mohamed Abdallah El-Reedy Ph.D, Mohamed El-Reedy, 2009-06-26 From China to Kuala Lumpur to Dubai to downtown New York, amazing buildings and unusual structures create attention with the uniqueness of their design. While attractive to developers and investors, the safe and economic design and construction of reinforced concrete buildings can sometimes be problematic.

Advanced Materials and Techniques for Reinforced Concrete **Designers' Guide to EN 1992-1-1 Eurocode 2: Design of Concrete Structures** Andrew W Beeby, R S Narayanan, 2005-09-30 Applies to the design of building and civil engineering structures in plain reinforced and pre-stressed concrete. The code for convenience referred to as EC2 is written in several parts: EN 1992-1-1, EN 1992-1-2, EN 1992-2 and EN 1992-3.

Applied Mechanics Reviews, 1973

Concrete, 1988

Prestressed Concrete Design, Second Edition M.K. Hurst, 2002-12-24 Prestressed concrete is widely used in the construction industry in buildings, bridges and other structures. The new edition of this book provides up-to-date guidance on the detailed design of prestressed concrete structures according to the provisions of the latest preliminary version of Eurocode 2: Design of Concrete Structures (EN 1992-1-1:2004). The emphasis throughout is

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Modern Prestressed Concrete James R. Libby,2012-12-06 This book was written with a dual purpose as a reference book for practicing engineers and as a textbook for students of prestressed concrete It represents the fifth generation of books on this subject written by its author Significant additions and revisions have been made in this edition Chapters 2 and 3 contain new material intended to assist the engineer in understanding factors affecting the time dependent properties of the reinforcement and concrete used in prestressing concrete as well as to facilitate the evaluation of their effects on prestress loss and deflection Flexural strength shear strength and bond of prestressed concrete members were treated in a single chapter in the of flexural strength has third edition Now in the fourth edition the treatment been expanded with more emphasis on strain compatibility and placed in Chapter 5 which is devoted to this subject alone Chapter 6 of this edition on flexural shear strength torsional strength and bond of prestressed reinforcement was expanded to include discussions of Compression Field Theory and torsion that were not treated in the earlier editions In similar fashion expanded discussions of loss of prestress deflection and partial prestressing now are presented separately in Chapter 7 Minor additions and revisions have been made to the material contained in the remaining chapters with the exception of xv xvi I PREFACE Chapter 17 This chapter which is devoted to construction considerations has important new material on constructibility and tolerances as related to prestressed concrete **Structural Engineering [Conventional and Objective Type]** P Dayaratnam,2019 For a decade Structural Engineering Conventional and Objective Type has provided fundamental knowledge of the subject to the students of Civil Engineering and aspirants of GATE students Divided in 10 parts each of which delves in primary topics of the subject Major topics which are dealt with Structural Materials Architectural Materials Solid Mechanics and Structural Systems Design of Steel Structures Design of Reinforced Concrete Structures Design of Prestressed Concrete Structures Design of Masonry and Timber Structures Construction Technology Soil Mechanics Foundation Engineering and GATE Questions

Civil Engineering License Review, 14th Edition Donald G. Newnan,2003-09 A review specifically for the latest version of the Civil Engineering Professional Engineer Exam Covers exam topics in 12 sections Buildings Bridges Foundations and Retaining Structures Seismic Design Hydraulics Engineering Hydrology Water Treatment Distribution Wastewater Treatment Geotechnical Soils Engineering and Ideal for the new breadth depth exam A detailed discussion of the exam and how to prepare for it 335 essay and multiple choice exam problems with a total of 650 individual questions A

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