



Figure 1.2 CIRIA Guide 3—meanings of symbols  $c_1$ ,  $c_2$ ,  $h$ ,  $l$  and  $l_c$

The CIRIA Guide considers that the active height  $h_a$  of a deep beam is limited to a depth equal to the span; that part of the beam above this height is taken merely as a load-bearing wall between supports.

#### 1.4.1 CIRIA Guide 'Simple Rules'

CIRIA's 'Simple Rules' are intended primarily for uniformly loaded deep beams. They can be applied to both single-span and continuous beams.

##### 1.4.1.1 Flexural strength

*Step 1:* Calculate the capacity of the concrete section.

$$M_u = 0.12 f_{cu} b h_a^2 \quad (1.3)$$

where  $f_{cu}$  is the concrete characteristic strength and  $b$  the beam thickness.

*Step 2:* If  $l/h_a \leq .5$  go to step 3. If  $l/h_a > 1.5$  check that the applied moment  $M$  does not exceed  $M_u$  of Eqn (1.3)

*Step 3:* Calculate the area  $A_s$  of the main longitudinal reinforcement:

$$A_s > M / 0.87 f_y z \quad (1.4)$$

where  $M$  is the applied moment,  $f_y$  the steel characteristic strength and  $z$  the lever arm, which is to be taken as follows:

$$z = 0.2l + 0.4h_a \text{ for single-span beams} \quad (1.5)$$

$$z = 0.2l + 0.3h_a \text{ for continuous beams} \quad (1.6)$$

*Step 4:* Distribute the reinforcement  $A_s$  (Eqn (1.4)) over a depth of  $0.2h_a$ . Anchor the reinforcement bars to develop at least 80% of the maximum ultimate force beyond the face of the support. A proper

# Ciria Guide 2 The Design Of Deep Beams

**D Keegan**



## **Ciria Guide 2 The Design Of Deep Beams:**

**Reinforced Concrete Deep Beams** F K Kong,1991-05-01 The contents of this book have been chosen with the following main aims to review the present coverage of the major design codes and the CIRIA guide and to explain the fundamental behaviour of deep beams to provide information on design topics which are inadequately covered by the current codes and design manuals and to give authoritative review

*Precast Concrete Structures* Kim S. Elliott,2019-08-08 This second edition of *Precast Concrete Structures* introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2 before going into the detail of the design manufacture and construction of precast concrete multi storey buildings Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements composite construction joints and connections and frame stability together with extensive specifications for precast concrete structures The book is extensively illustrated with over 500 photographs and line drawings

**The Design of Deep Beams in Reinforced Concrete** ,1977      **The Structural Engineer** ,1998

**Reinforced Concrete Designer's Handbook** Charles Edward Reynolds,James Cyril Steedman,1981 A Viewpoint publication

**ACI Structural Journal** ,2008      *Proceedings - Institution of Civil Engineers* Institution of Civil Engineers (Great Britain),1989      Geodex Structural Information Service Geodex International,1987      Reinforcement Detailing Manual Robin Whittle,1981      *Magazine of Concrete Research* ,1983      *Journal of Advanced Materials* ,2007

Proceedings Institution of Civil Engineers (Great Britain),1988-02      **Journal of Ferrocement** ,2002      **Offshore Structures** G. S. T. Armer,F. K. Garas,1981      **Proceedings** International Congress of the Precast Concrete Industry,1994

*Concrete Abstracts* ,1986      High-performance Concrete V. M. Malhotra,1994      **PCI Journal** ,1990      **Dissertation Abstracts International** ,1989      Discrete Elements and Nonlinearity in Design of Structural Concrete Walls Pierre C. J. Hoogenboom,1998

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