- 2.12 Wall ties
- 2.13 Concrete infill and grout
- 2.14 Reinforcing and prestressing steel

3 Masonry properties

- 3.1 General
- 3.2 Compressive strength
- 3.3 Strength of masonry in combined compression and shear
- 3.4 The tensile strength of masonry
- 3.5 Stress-strain properties of masonry
- 3.6 Effects of workmanship on masonry strength

4 Codes of practice for structural masonry

- 4.1 Codes of practice: general
- 4.2 The basis and structure of BS 5628: Part 1
- 4.3 BS 5628: Part 2—reinforced and prestressed masonry
- 4.4 Description of Eurocode 6 Part 1–1 (ENV 1996–1–1:1995)

5 Design for compressive loading

- 5.1 Introduction
- 5.2 Wall and column behaviour under axial load
- 5.3 Wall and column behaviour under eccentric load
- 5.4 Slenderness ratio
- 5.5 Calculation of eccentricity
- 5.6 Vertical load resistance
- 5.7 Vertical loading
- 5.8 Modification factors
- 5.9 Examples

6 Design for wind loading

- 6.1 Introduction
- 6.2 Overall stability
- 6.3 Theoretical methods for wind load analysis
- 6.4 Load distribution between unsymmetrically arranged shear walls

7 Lateral load analysis of masonry panels

- 7.1 General
- 7.2 Analysis of panels with precompression
- 7.3 Approximate theory for lateral load analysis of walls subjected to precompression with and without returns

- 7.4 Effect of very high precompression
- 7.5 Lateral load design of panels without precompression

8 Composite action between walls and other elements

- 8.1 Composite wall-beams
- 8.2 Interaction between wall panels and frames

9 Design for accidental damage

- 9.1 Introduction
- 9.2 Accidental loading
- 9.3 Likelihood of occurrence of progressive collapse
- 9.4 Possible methods of design
- 9.5 Use of ties

10 Reinforced masonry

- 10.1 Introduction
- 10.2 Flexural strength
- 10.3 Shear strength of reinforced masonry
- 10.4 Deflection of reinforced masonry beams
- 10.5 Reinforced masonry columns, using BS 5628: Part 2
- 10.6 Reinforced masonry columns, using ENV 1996–1–1

11 Prestressed masonry

- 11.1 Introduction
- 11.2 Methods of prestressing
- 11.3 Basic theory
- 11.4 A general flexural theory
- 11.5 Shear stress
- 11.6 Deflections
- 11.7 Loss of prestress

12 Design calculations for a seven-storey dormitory building according to BS 5628

- 12.1 Introduction
- 12.2 Basis of design: loadings
- 12.3 Quality control: partial safety factors
- 12.4 Calculation of vertical loading on walls
- 12.5 Wind loading
- 12.6 Design load
- 12.7 Design calculation according to EC6 Part 1–1 (ENV 1996–1:1995)
- 12.8 Design of panel for lateral loading: BS 5628 (limit state)
- 12.9 Design for accidental damage