

# BASIC KNOWLEDGE FOR CIVIL SITE ENGINEERS

- Weight of steel =  $D^2 / 162$  (kg/m)
- Weight of steel =  $D^2 / 533$  (kg/ft)
- Size of concrete testing cube  
= 150 x 150 x 150 mm
- Concrete cube is filled in = 3 layers
- Slump cone is filled in = 4 layers
- Minimum % of steel in column  
= 0.8% of gross area
- Maximum % of steel in column  
= 6% of gross area
- Minimum % of steel used in beam  
= 1% of gross area
- Maximum % of steel used in beam  
= 2% of gross area
- Minimum % of steel used in slab  
= 0.7% of gross area
- Maximum % of steel used in slab  
= 1% of gross area
- Minimum thickness of shear wall  
= 150 mm
- Maximum thickness of shear wall  
= 400 mm
- Slope of Staircase = 25 to 40 degrees
- Nominal cover:
  - Footing = 50 mm
  - Column = 40 mm
  - Slab = 20 mm

# Civil Site Engineer Basic Knowledge Pdf

**AW Chickering**



## **Civil Site Engineer Basic Knowledge Pdf:**

Educating the Engineer of 2020 National Academy of Engineering,2005-10-06 Educating the Engineer of 2020 is grounded by the observations questions and conclusions presented in the best selling book The Engineer of 2020 Visions of Engineering in the New Century This new book offers recommendations on how to enrich and broaden engineering education so graduates are better prepared to work in a constantly changing global economy It notes the importance of improving recruitment and retention of students and making the learning experience more meaningful to them It also discusses the value of considering changes in engineering education in the broader context of enhancing the status of the engineering profession and improving the public understanding of engineering Although certain basics of engineering will not change in the future the explosion of knowledge the global economy and the way engineers work will reflect an ongoing evolution If the United States is to maintain its economic leadership and be able to sustain its share of high technology jobs it must prepare for this wave of change

The Ethical Engineer Robert McGinn,2018-02-13 An exploration of the ethics of practical engineering through analyses of eighteen rich case studies The Ethical Engineer explores ethical issues that arise in engineering practice from technology transfer to privacy protection to whistle blowing Presenting key ethics concepts and real life examples of engineering work Robert McGinn illuminates the ethical dimension of engineering practice and helps students and professionals determine engineers context specific ethical responsibilities McGinn highlights the ethics gap in contemporary engineering the disconnect between the meager exposure to ethical issues in engineering education and the ethical challenges frequently faced by engineers He elaborates four fundamental ethical responsibilities of engineers FEREs and uses them to shed light on the ethical dimensions of diverse case studies including ones from emerging engineering fields The cases range from the Union Carbide pesticide plant disaster in India to the Google Street View project After examining the extent to which the actions of engineers in the cases align with the FEREs McGinn recapitulates key ideas used in analyzing the cases and spells out the main lessons they suggest He identifies technical social and personal factors that induce or press engineers to engage in misconduct and discusses organizational legal and individual resources available to those interested in ethically responsible engineering practice Combining probing analysis and nuanced ethical evaluation of engineering conduct in its social and technical contexts The Ethical Engineer will be invaluable to engineering students and professionals Meets the need for engineering related ethics study Elaborates four fundamental ethical responsibilities of engineers Discusses diverse global cases of ethical issues in established and emerging engineering fields Identifies resources and options for ethically responsible engineering practice Provides discussion questions for each case

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