

## Fundamentals Reinforced Concrete N C Sinha Chand

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Fundamentals Reinforced Concrete N C Sinha Chand

Fundamentals of Reinforced Concrete N C Sinha & S.K. Roy. ISBN : 9788121901277 Pages : 1168 Binding : Paperback Language : English

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CHAPTER 17 Reinforced Concrete pages 50–52 CHAPTER 18 Formwork pages 53–54 MORE Information pages 55–56 Cement Concrete & Aggregates Australia 1 Concrete Basics Contents 1 Cement Concrete & Aggregates Australia Cement Concrete & Aggregates Australia is a not for profit organisation sponsored by the cement concrete and aggregate industries ...

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CONCRETE BASICS A Guide to Concrete Practice

$n = \frac{f_y b d^2}{4 M_u} = \frac{0.59 \times 12 \times (22.2)^2}{4 \times (0.0213 \times 60 \times 10^3)} = 0.59 \times (0.0213) \times 60 \times 5 = 6409 \text{ in.}^2$  Moment which must be resisted by additional compression and tension reinforcement Assuming compression steel yields we will have:  $M_u = A_s f_y (d - d') = 0.9 \times A_s \times (60 - 2.5) = 1063.8 \times A_s$   $2365 \text{ in.-k} = 1063.8 \times A_s$   $A_s = \frac{2365}{1063.8}$

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Chapter 6. Compression Reinforcement - Flexural Members

The equation for this is:  $FW_{agg} = W_{agg} \times (MC_{agg} - A_{agg})$  Add water = free-water shown on the mix design – aggregate free-water. For example, consider a concrete mix design that calls for 282-pounds of water (i.e. free- water) and contains 1100 pounds of fine aggregate and 2000 pounds of coarse aggregate.

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