

CONCRETE DESIGN CALCULATOR: Quiz-4 Solution Section (3)



| | | | | | |
|-------------------------------------|---|------------------------|--------------|-------------------------|---------------|
| Select Strength: | $f_y = 60000 \text{ psi}; f_c = 4000 \text{ psi}$ | Select design ρ : | ρ_{max} | Select Load Case: | $1.2D + 1.4L$ |
| $f_y = 60000$ | $F_y = 4000$ | Design $\rho = 0.0069$ | | Est w_s [k/ft] = 1.78 | |
| $\rho_{max} = 0.0033$ | $\rho_{max} = 0.0181$ | Design $R_n = 388.79$ | | M_u [ft-k] = 227.8 | |
| R_n of ρ_{max} [psi] = 192.2 | R_n of ρ_{max} [psi] = 952.0 | $b_w d^3 = 7813.549$ | | M_u [ft-k] = 253.2 | |
| | | $d = 22.10$ | | Density [pcf] 150 | |

Enter Givens & Estimates:

| | | | | | |
|----------------------|--------|--------------------------------|--------|----------------|--------|
| w_s [k/ft] | 0.55 | b_w [in] | 14 | b_{eff} [in] | 80 |
| w_s [k/ft] | 0.4 | h [in] | 27 | t [in] | 3 |
| Length [ft] | 32 | d [in] | 24 | a [in] | 0.49 |
| Clear Cover [in] | 3 | A_g [in ²] | 2.65 | β_1 | 0.85 |
| Est Self Wt [pcf] | 400 | $A_{g,max}$ [in ²] | 1.214 | c [in] | 0.57 |
| Actual Self Wt [pcf] | 450.00 | $A_{g,max}$ [in ²] | 1.280 | e_s | 0.1227 |
| | | ϕM_u [ft-k] | 253.36 | | |

Neutral Axis Calculations:

| | | | |
|--------------------------------|-------|---------------|-------|
| T [kips] | 142.2 | z [in] = | 21.60 |
| A_g [in ²] | 41.8 | z [in] = | 22.50 |
| $A_{g,req}$ [in ²] | 240 | Governing z | 22.50 |

N.A. is in the flange

Select A_s in Tension:

| BAR | Qty | A_s [in ²] |
|-----|-----|--------------------------|
| #8 | 3 | 2.37 |

If $a < ht$

| | |
|--------------------------|--------|
| A_s [in ²] | 2.6496 |
|--------------------------|--------|

| If $a > t$ | |
|------------------------------|---------|
| $A_{g,r}$ [in ²] | 10.88 |
| $M_{u,r}$ [k-ft] | 1224.00 |
| $M_{u,r}$ [k-ft] | 996.16 |
| R_n | 1441.20 |
| $\rho_s = 0.03$ | |
| a [in] | 14.64 |
| c [in] | 17.22 |
| e_s | 0.00 |
| $A_{g,r}$ [in ²] | 13.27 |
| A_s [in ²] | 24.15 |

Bar Selection:

| BAR | Number of Bars in a Single Layer of Reinforcing | | | | | | | | | | | | | |
|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width | Area | Width |
| #4 | 0.39 | 6.80 | 0.58 | 8.30 | 0.78 | 9.80 | 0.98 | 11.30 | 1.18 | 12.80 | 1.37 | 14.30 | 1.57 | 15.80 |
| #5 | 0.61 | 6.90 | 0.91 | 8.50 | 1.23 | 10.20 | 1.55 | 11.80 | 1.84 | 13.4 | 2.15 | 15.00 | 2.45 | 16.70 |
| #6 | 0.88 | 7.00 | 1.32 | 8.80 | 1.77 | 10.50 | 2.21 | 12.30 | 2.65 | 14.00 | 3.09 | 15.80 | 3.53 | 17.50 |
| #7 | 1.20 | 7.20 | 1.80 | 9.00 | 2.41 | 10.90 | 3.01 | 12.80 | 3.61 | 14.70 | 4.21 | 16.50 | 4.81 | 18.40 |
| #8 | 1.57 | 7.30 | 2.35 | 9.30 | 3.14 | 11.30 | 3.93 | 13.30 | 4.71 | 15.30 | 5.50 | 17.30 | 6.28 | 19.30 |
| #9 | 2.00 | 7.60 | 3.00 | 9.80 | 4.00 | 12.10 | 5.00 | 14.30 | 6.00 | 16.60 | 7.00 | 18.80 | 8.00 | 21.10 |
| #10 | 2.53 | 7.80 | 3.79 | 10.40 | 5.06 | 12.90 | 6.33 | 15.50 | 7.59 | 18.00 | 8.86 | 20.50 | 10.12 | 23.10 |
| #11 | 3.12 | 8.10 | 4.68 | 10.90 | 6.25 | 13.80 | 7.81 | 16.60 | 9.37 | 19.40 | 10.94 | 22.20 | 12.50 | 25.00 |
| #14 | 4.50 | 8.90 | 6.75 | 12.30 | 9.00 | 15.70 | 11.25 | 19.00 | 13.50 | 22.40 | 15.75 | 25.80 | 18.00 | 29.20 |
| #18 | 8.00 | 10.60 | 12.00 | 14.10 | 16.00 | 19.60 | 20.00 | 24.50 | 24.00 | 28.60 | 28.00 | 35.10 | 32.00 | 37.70 |

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G Psacharopoulos



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 - The Rise of Digital Reading Civil Engineering Material Calculation
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Material Calculation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Civil Engineering Material Calculation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Material Calculation

- Personalized Recommendations
- Civil Engineering Material Calculation User Reviews and Ratings
- Civil Engineering Material Calculation and Bestseller Lists
- 5. Accessing Civil Engineering Material Calculation Free and Paid eBooks
 - Civil Engineering Material Calculation Public Domain eBooks
 - Civil Engineering Material Calculation eBook Subscription Services
 - Civil Engineering Material Calculation Budget-Friendly Options
- 6. Navigating Civil Engineering Material Calculation eBook Formats
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 - Civil Engineering Material Calculation Compatibility with Devices
 - Civil Engineering Material Calculation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Civil Engineering Material Calculation
 - Highlighting and Note-Taking Civil Engineering Material Calculation
 - Interactive Elements Civil Engineering Material Calculation
- 8. Staying Engaged with Civil Engineering Material Calculation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Civil Engineering Material Calculation
- 9. Balancing eBooks and Physical Books Civil Engineering Material Calculation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Civil Engineering Material Calculation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Civil Engineering Material Calculation
 - Setting Reading Goals Civil Engineering Material Calculation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Civil Engineering Material Calculation

- Fact-Checking eBook Content of Civil Engineering Material Calculation
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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