

# ANALISIS KOLOM M BETON BERTULANG

DENGAN DIAGRAM INTERAKSI

KODE KOLOM

K2

## INPUT DATA KOLOM

|                             |          |     |      |
|-----------------------------|----------|-----|------|
| Kuat tekan beton,           | $f'_c =$ | 20  | MPa  |
| Tegangan leleh baja,        | $f_y =$  | 390 | MPa  |
| Lebar kolom,                | $b =$    | 250 | mm   |
| Tinggi kolom,               | $h =$    | 250 | mm   |
| Tebal brutto selimut beton, | $d_s =$  | 40  | mm   |
| Jumlah tulangan,            | $n =$    | 4   | buah |
| Diameter tulangan,          | $D =$    | 19  | mm   |

## PERHITUNGAN DIAGRAM INTERAKSI

|                                      |                                     |        |                 |
|--------------------------------------|-------------------------------------|--------|-----------------|
| Modulus elastis baja,                | $E_s =$                             | 2.E+05 | MPa             |
| $\beta_1 = 0,85$                     | untuk $f'_c \leq 30$ MPa            |        |                 |
| $\beta_1 = 0,85 - 0,008 (f'_c - 30)$ | untuk $f'_c > 30$ MPa               |        |                 |
| Faktor distribusi tegangan,          | $\beta_1 =$                         | 0,85   |                 |
| Luas tulangan total,                 | $A_s = n \cdot \pi / 4 \cdot D^2 =$ | 1134   | mm <sup>2</sup> |
| Jarak antara tulangan,               | $x = h - 2 \cdot d_s =$             | 170,00 | mm              |
| Rasio tulangan,                      | $\rho = A_s / A_g =$                | 1,81%  |                 |

## Faktor reduksi kekuatan,

|                                                               |                                                    |
|---------------------------------------------------------------|----------------------------------------------------|
| $\phi = 0,65$ untuk $P_u \geq 0,1 \cdot f'_c \cdot b \cdot h$ | Untuk : $0 \leq P_u$                               |
| $\phi = 0,80$ untuk $P_u = 0$                                 | $\phi = 0,65 + 0,15 \cdot (P_{u0} - P_u) / P_{u0}$ |

| No      | Luas masing-masing tulangan                    | Jarak tulangan thd.  |
|---------|------------------------------------------------|----------------------|
| 1       | $A_{s1} = 2/4 \cdot A_s = 567$ mm <sup>2</sup> | $d_1 = x + d_s =$    |
| 2       | $A_{s2} = 2/4 \cdot A_s = 567$ mm <sup>2</sup> | $d_2 = d_s =$        |
| $A_g =$ |                                                | 1134 mm <sup>2</sup> |

Pada kondisi tekan aksial sentris ( $M_{u0} = 0$ ) :

$$P_{u0} = 0,80 \cdot [0,85 \cdot f'_c \cdot b \cdot h + A_s \cdot (f_y - 0,85 \cdot f'_c)] \cdot 10^{-3} = 1188 \text{ kN}$$

Pada kondisi balance :

$$0,1 \cdot f'_c \cdot b \cdot h \cdot 10^{-3} = 125 \text{ kN}$$

$$c = c_b = 600 / (600 + f_y) \cdot d_1 = 127,3 \text{ mm}$$

Pada kondisi garis netral terletak pada jarak c dari sisi beton tekan t

Regangan pada masing-masing baja tulangan :  $\epsilon_{si} = 0,003 \cdot (c - d_i) / c$

Tegangan pada masing-masing baja tulangan :

Untuk  $|\epsilon_{si}|$  maka  $f_{si} = \epsilon_{si} \cdot E_s$

Untuk  $|\epsilon_{si}|$  maka  $f_{si} = |\epsilon_{si}| / \epsilon_{si} \cdot f_y$

$$\text{Jumlah interval jarak grs netral} = 112 \rightarrow \Delta c = 2,2321$$

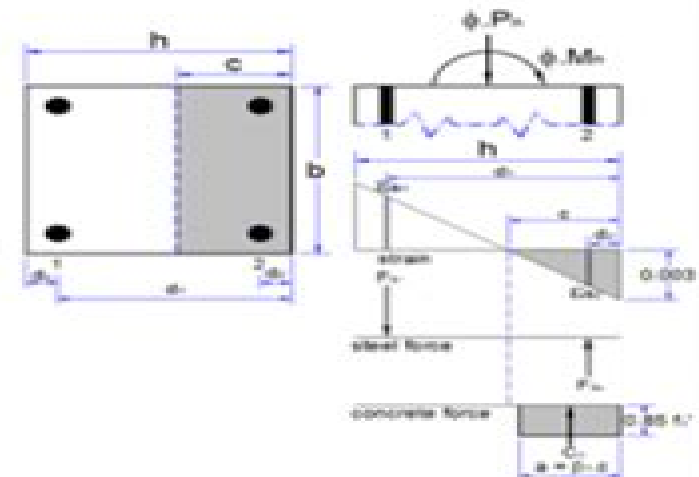
## URAIAN PERHITUNGAN

Gaya-gaya internal pada masing-masing baja tulangan :

Resultan gaya internal baja tulangan :

Momen akibat gaya internal masing-masing baja tulangan :

K10 K8 K7 K6 K5 K4 K3



## PERSAMAAN

$$F_{si} = A_{si} \cdot f_{si} \cdot 10^{-3} \text{ kN}$$

$$C =$$

$$M =$$



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**Edward G. Nawy**



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