

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 ²
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 ²	$d_1 = x + d_s =$
2	$A_{s2} = 2/4 \cdot A_s = 567$ mm ²	$d_2 = d_s =$
$A_g =$		1134 mm ²

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

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

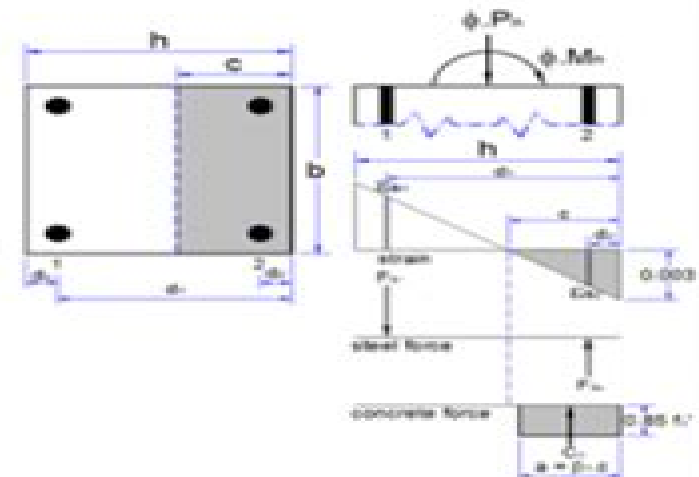
URAIAN PERHITUNGAN

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

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

C

M



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Perhitungan Diagram Interaksi Kolom Beton Bertulang

Dr. Ir. Nawir Rasidi, ST., MT., IPU.



Perhitungan Diagram Interaksi Kolom Beton Bertulang:

Desain Beton Bertulang Jl. 1 , Perhitungan Struktur Beton Bertulang Gedung Sekolah 7 Lantai di Kota

Pontianak Barie Danu Hartono, 2019-10-02 Buku yang membahas perhitungan struktur beton gedung sekolah dengan menggunakan standar SNI 1726 2012 SNI 2847 2013 dan SNI 1727 2013

APLIKASI PROGRAM PENULANGAN

BALOK DAN KOLOM BETON PADA SMARTPHONE Tony Hartono Bagio, Eugene Yudhistira Baggio, 2024-10-11

Perkembangan teknologi dalam beberapa tahun terakhir tidak dapat dipungkiri berkembang sangat pesat hal ini bisa sangat membantu dalam setiap pekerjaan yang akan dilakukan Dalam pekerjaan konstruksi bangunan perhitungan balok dan kolom beton bertulang juga memanfaatkan perkembangan teknologi Perhitungan yang dilakukan pada komputer sangat membantu mempercepat dan mempermudah pekerjaan yang dilakukan serta mengurangi kesalahan akibat human error Tetapi penggunaan komputer kian lama berkurang karena pekerjaan yang dulunya hanya bisa dikerjakan pada komputer sekarang bisa dilakukan pada ponsel cerdas smartphone Penulangan balok untuk tulangan tarik As Mn dan tulangan tekan As As dimana f_y dan f_s 0 85 f_c dan Mn f_y Cc Mn f_s Cc sedang penulangan kolom tanpa menggunakan diagram interaksi M N untuk mencari Atotal 1 Atot 1% Agross 2 Atot 8% Agross 3 Atot antara 1% 8% Pada tahap 1 2 3 mencari nilai c menggunakan metode Newton Raphson sedang mencari prosentase penulangan menggunakan metode bagi dua divided by two method Pemrograman menentukan As As dan Astotal ditulis menggunakan bahasa pemrograman Texas Instruments sehingga dapat di aplikasikan pada ponsel cerdas smartphone Hasil perhitungan balok menggunakan ponsel cerdas mendapatkan hasil dengan akurasi 99 99% untuk penulangan lentur 99 92% untuk penulangan geser dan 98 97% untuk penulangan torsi Sedang untuk perhitungan kolom akurasi smartphone terhadap manual sebesar 97 97% dibanding diagram M N dengan manual sebesar 147 78% overestimate Untuk kolom biaxial akurasi ketepatannya sebesar 92 24% **Beton Prategang Jl.**

2 Ed. 3 Edward G. Nawy, 2001

Perencanaan Jembatan Girder Beton Prategang Pracetak I Nyoman Sutarja, I Nyoman Yudha Astana, I Putu Suarma, 2025-03-18 Buku ini merupakan panduan akademik yang membahas secara sistematis perencanaan jembatan girder beton prategang pracetak sesuai dengan prinsip prinsip rekayasa struktur dalam teknik sipil Disusun sebagai bahan ajar tambahan untuk mata kuliah Perilaku Struktur Beton Prategang Pracetak buku ini mengacu pada standar perencanaan dan kode teknik yang relevan serta didukung oleh berbagai literatur akademik Bab pertama memperkenalkan konsep dasar perencanaan standar yang digunakan serta kriteria desain struktur dan material Bab kedua membahas secara rinci perhitungan slab lantai kendaraan dan plat injak approach slab yang merupakan elemen penting dalam kenyamanan dan keamanan berkendara di atas jembatan Pada bab ketiga fokus utama diberikan pada perhitungan balok prategang segmental dengan bentang 40 meter mencakup aspek geometri pembebanan gaya prategang kehilangan tegangan loss of prestress hingga analisis lendutan dan kontrol kapasitas beton terhadap gaya tekan serta momen nominal Bab keempat membahas analisis pondasi tiang bor untuk abutment jembatan termasuk daya dukung aksial dan lateral

kontrol kapasitas izin serta desain pembesian tiang bor dan pile cap Bab terakhir yaitu bab kelima menjelaskan secara detail perhitungan contrafort retaining wall setinggi 10 5 meter yang mencakup analisis beban kerja pengaruh gempa kombinasi beban pada pondasi hingga perhitungan penulangan pelat dasar untuk menjamin kestabilan struktur dinding penahan tanah Buku ini diharapkan dapat menjadi referensi yang bermanfaat bagi mahasiswa dosen dan praktisi teknik sipil dalam memahami serta mengaplikasikan konsep perencanaan jembatan girder beton prategang pracetak secara lebih mendalam dan aplikatif

Struktur Beton Bertulang (Reinforced Concrete Structures) Sri Frapanti, S.T., M.T., 2025-04-16 Buku ajar ini diharapkan dapat memberikan mempelajari tentang dasar dasar perancangan suatu elemen struktur beton bertulang termasuk didalamnya adalah elemen struktur beton bertulang termasuk didalamnya adalah elemen struktur balok kolom untuk beton dasar dalam membahas metoda perancangan struktur beton dasar memakai kaidah kaidah dasar perancangan berdasarkan SNI 2847 2013

DESAIN JEMBATAN 2 Abdul Rochman, Buku Desain Jembatan Jilid 2 diuraikan tentang perencanaan jembatan rangka baja dan jembatan beton bertulang untuk jalan rel Pada bagian berikutnya diuraikan tentang perencanaan kepala jembatan abutment meliputi abutment gravitas abutment T beton bertulang abutment pondasi sumuran dan abutment pondasi tiang pile Untuk memperjelas pembahasan semuanya dilengkapi dengan contoh hitungan perencanaan sampai ke bagaimana penggambaran tulangannya

Aplikasi Rekayasa Konstruksi Dengan Sap2000, **DESAIN PORTAL BETON BERTULANG DENGAN SISTEM RANGKA PEMIKUL MOMEN BIASA BERDASARKAN SNI 2847 - 2013** Ir. Ali Asroni, M.T., Nur Khotimah Handayani, S.T., M.Eng., **Desain Portal Beton Bertulang dengan Sistem Rangka Pemikul Momen Khusus** Ir. Ali Asroni, M.T., Yunalia Muntafi, S.T., M.T., Ir. Abdul Rochman, M.T., 2020-10-19 Portal merupakan struktur rangka dari bangunan gedung bertingkat dapat didesain berdasarkan kekuatan Sistem Rangka Pemikul Beton SRPM baik secara biasa SRPMB menengah SRPMK maupun secara khusus SRPMK Desain tulangan di dalam buku ini dibuat cukup lengkap mulai dari desain balok kolom fondasi dan sloof yang dihitung berdasarkan sistem rangka pemikul momen khusus SRPMK

STRUKTUR BETON 2 Dr. Ir. Nawir Rasidi, ST., MT., IPU., 2024-01-12 Beton bertulang adalah salah satu bahan konstruksi yang paling umum digunakan di seluruh dunia Pemahaman yang kuat mengenai desain dan analisis struktur beton bertulang adalah suatu keharusan bagi para profesional dan mahasiswa di bidang ini Buku ini dirancang khusus untuk memberikan wawasan yang komprehensif tentang topik topik tersebut dengan memberikan penjelasan mendalam contoh kasus dan panduan praktis yang akan membantu Anda dalam merancang menganalisis dan memahami prinsip prinsip dasar yang terlibat dalam struktur beton bertulang Dalam buku ini Anda akan menemukan pembahasan yang terperinci tentang kolom beton bertulang yang merupakan elemen penting dalam pembangunan struktur bertingkat tinggi Kami juga mengulas fondasi yang merupakan fondasi dari setiap bangunan yang kokoh dan stabil Selain itu buku ini juga mencakup konsol pendek yang sering digunakan dalam desain struktur untuk memberikan dukungan ekstra atau elemen arsitektural yang menarik

Contoh desain bangunan tahan gempa dengan sistem rangka pemikul momen khusus dan sistem dinding

struktur khusus di Jakarta Bambang Budiono, 2017 Earthquake resistant design and construction of housing in Jakarta

Buku Desain Komponen: Struktur Beton Bertulang Lanjut Tony Hartono Bagio, 2022-08-26 Deskripsi Buku dengan judul *Desain Komponen Struktur Beton Bertulang Lanjut* merupakan kelanjutan dari *Beton Bertulang Dasar* yang terdiri dari 9 Bab. Dalam buku tersebut didominasi oleh perhitungan kolom yang dimulai dari Kolom Axial Pembuatan Diagram Interaksi Mendesain Kolom dengan Grafik di mana grafik dapat dilihat pada lampiran grafik kolom Mendesain Kolom Secara Analitis juga disajikan sangat jarang penulis mendesain kolom dengan cara analitis karena cukup dengan tabel akan didapat penulangan kolom. Namun secara grafik perlu juga untuk mengetahui filosofi dari penulangan kolom secara manual di mana cara ini selain dituangkan dengan step by step juga diberi penjelasan dari bagan alir cara analitis mencari tulangan kolom yang mempunyai dua variabel yang saling bergantung yakni Momen dan Gaya Axial di mana keduanya saling berdiri sendiri selain penulangan longitudinal juga penulangan lateral akibat geser pada kolom dengan Biaxial Momen juga kolom langsing bergoyang ataupun tidak bergoyang. Pada lampiran A dan B merupakan lampiran grafik untuk penulangan kolom dan lampiran B adalah listing program menggunakan VBA Visual Basic for Application Kalkulator TI Texas Instrument merupakan salah satu kalkulator yang dapat di program pada Bab IV merupakan listing program yang ditulis dengan bahasa pemrograman Texas Instrument untuk perhitungan penulangan kolom. Selamat Membaca Informasi lainnya Judul Buku *Desain Komponen Struktur Beton Bertulang Lanjut* Deskripsi fisik 19 x 23 cm 394 halaman Weight 0 65 kg ISBN 9786230126741 Pengarang Tony Hartono Bagio Penerbitan Andi Offset 2022 Bahasa Indonesia Bentuk Karya Non Fiksi Status Aktif

Teori dan Desain Kolom Fondasi Balok "T" Ir. Ali Asroni, M.T., Buku ini berisi tentang teori kolom fondasi dan balok T. Pembahasan dalam buku ini diusahakan sederhana dan lengkap serta diberikan contoh-contoh hitungan dengan soal-soal agar lebih mudah dipahami oleh mahasiswa teknik sipil. Buku ini dibagi menjadi enam bab yaitu pengenalan kolom, perencanaan tulangan untuk kolom pendek, perencanaan tulangan untuk kolom panjang, fondasi, beban gempa, perencanaan balok T.

Struktur Beton Dasar Sri Prafanti, S.T., M.T., 2024-12-04 Struktur beton dasar dalam program studi teknik sipil diharapkan dapat memberikan mempelajari tentang dasar-dasar perencanaan suatu elemen struktur beton bertulang termasuk di dalamnya adalah elemen struktur balok kolom untuk beton dasar.

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