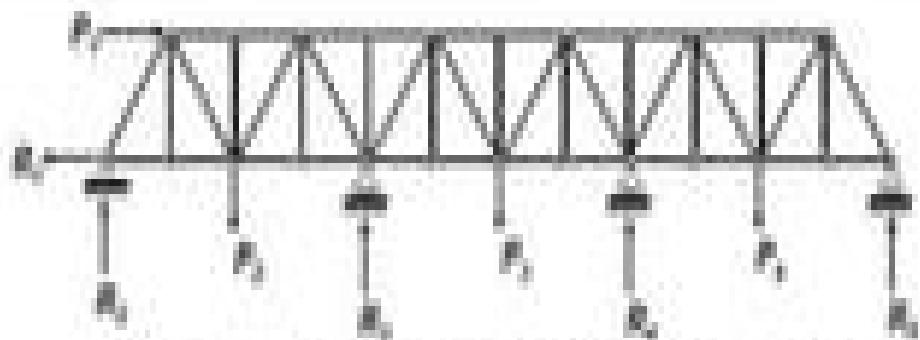
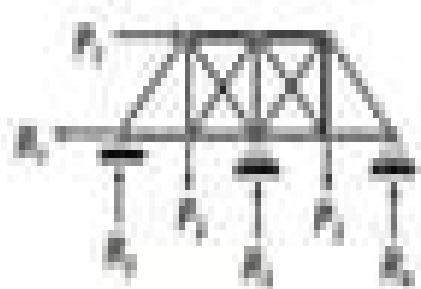


# CONTOH RANGKA BATANG STT

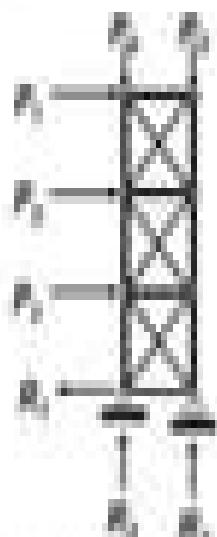


(a)  $r = 6, j = 12, m = 45, l = m - (2r - j) = 2$ ; tak statis



$r = 6, j = 12, m = 18$

(b)  $r = m = 6, j = 12, l = m - (2r - j) = 3$ ; tak statis



$r = 4, j = 8, m = 12$

(c)  $r = m = 4, j = 8, l = 3$ ; tak statis

Rangka batang statis tak tentu pada Gambar a berderajat dua, karena mempunyai empat reaksi yang tak ditentu dan hanya ada dua persamaan kesetimbangan. Gambar b dan Gambar c berderajat tiga, karena ada tiga batang lemahban ( $m = 3$ ) ditambah tiga reaksi yang tidak ditentu, sehingga persamaan kesetimbangan yang ada hanya tiga saja.

# Menghitung Rangka Batang Mekanika Statis Tak Tentu

**Wolfgang Guggemos**

## **Menghitung Rangka Batang Mekanika Statis Tak Tentu:**

*Mekanika Rekayasa Lanjutan Struktur Statis Tak Tentu* Moh Nur Sholeh, 2023-05-16 Isi buku ini dibagi menjadi sembilan bab Bab I tentang konstruksi rangka batang truss yang membahas tentang apa itu rangka batang serta metode perhitungannya yang meliputi metode keseimbangan titik buhul potongan ritter grafis cremona dan komputasi SAP2000 Bab II membahas tentang struktur kabel pada jembatan gantung dengan lantai kendaraan dari balok dan rangka batang Bab III tentang struktur pelengkung tiga sendi untuk menghitung gaya dalam D M N dan beban tak langsung pada pelengkung tiga sendi Bab IV menjelaskan tentang perbedaan mendasar statis tertentu dan struktur statis tak tentu sebagai dasar pengetahuan dalam memahami konsep dan metode yang digunakan Bab V sampai dengan IX masing masing membahas tentang metode perhitungan statis tak tentu yaitu metode consistent deformation persamaan tiga momen slope deflection distribusi momen cross dan matriks Setiap pembahasan metode perhitungan dipaparkan dengan runut dalam langkah langkah penurunan rumus contoh pengerjaan soal dan disertai ilustrasi gambar Selain itu pada bagian akhir buku ini dilampiri rumus rumus momen primer sebagai panduan dalam perhitungan Hal ini dikarenakan momen primer sering digunakan dalam perhitungan struktur statis tak tentu

[Mekanika Rekayasa Struktur Rangka Batang](#) Moh Nur

Sholeh, 2021-07-28 Buku Mekanika Rekayasa Struktur Rangka Batang ini dibagi kedalam enam bab yang fokus pada pemahaman dan perhitungan struktur rangka batang truss Bab I mengenai pengantar mekanika rekayasa yang menjadi pendahuluan dan gambaran mengapa belajar mekanika rekayasa Bab II tentang pengenalan struktur rangka batang Bab III tentang metode titik buhul Bab IV tentang metode potongan ritter Bab V tentang metode cremona Bab VI tentang struktur rangka batang dengan metode SAP2000 Masing masing metode dilengkapi dengan contoh soal dan pembahasan

[Analisis](#)

[Struktur Statis Tertentu](#) Anak Agung Diah Parami Dewi, Ph.D., Ida Ayu Made Budiwati, Ph.D., Prof. Made Sukrawa,

Ph.D., Hendra Prayoga, S.T., M.T., Prof. I Ketut Sudarsana, Ph.D., Prof. Dr. Dewa Ketut Sudarsana, 2024-08-19 Buku Analisis Struktur Statis Tertentu ini dirancang sebagai panduan komprehensif untuk mata kuliah yang menjadi dasar dalam analisis struktur di bidang teknik sipil Buku ini merupakan bagian dari rangkaian mata kuliah analisis struktur yang diajarkan di Program Studi Sarjana Teknik Sipil FT Unud yang mencakup Analisis Struktur Statis Tertentu Analisis Struktur Statis Tak Tentu dan Analisis Struktur Metode Matriks Bab pertama dimulai dengan pengenalan konsep dasar termasuk sistem satuan dan vektor yang menjadi fondasi bagi pembahasan lebih lanjut Buku ini kemudian melanjutkan dengan analisis balok dan rangka sederhana rangka batang pelengkung tiga sendi struktur kabel hingga garis pengaruh pada balok sederhana Setiap bab disusun dengan tujuan untuk memberikan pemahaman yang mendalam dan akurat tentang topik yang dibahas disertai contoh contoh soal yang relevan untuk mempermudah proses belajar Buku ini disusun secara ringkas namun padat oleh tim dosen yang berpengalaman dengan dukungan dari mahasiswa yang terlibat dalam penyusunan materi dan pembuatan ilustrasi Dengan pendekatan yang sistematis dan dilengkapi dengan soal soal latihan buku ini bertujuan untuk

mempermudah mahasiswa dalam memahami konsep dan aplikasi analisis struktur statis tertentu serta menjadi landasan yang kuat untuk mata kuliah lanjutan di bidang ini Secara keseluruhan Analisis Struktur Statis Tertentu tidak hanya berfungsi sebagai buku ajar tetapi juga sebagai sumber referensi yang dapat terus diperbaiki dan dikembangkan berdasarkan masukan dari berbagai pihak termasuk mahasiswa dan dosen *Analisa Struktur 1* Hariman Al Faritzie, S.ST., M.T., Analisa Struktur 1 adalah buku yang membahas cara cara menganalisis suatu sistem struktur bisa berupa balok menerus rangka batang ataupun struktur portal baik secara konvensional yaitu dengan persamaan kesetimbangan baik secara analitis maupun grafis yang berkembang kurang lebih 20 tahun terakhir Ilmu ini adalah ilmu dasar yang harus dikuasai mereka yang mendalami bidang ilmu teknik sipil Buku ini ditujukan sebagai buku teks untuk mata kuliah Statika Analisis Struktur atau juga untuk Mekanika Teknik namun juga sangat bermanfaat sebagai referensi bagi praktisi atau bagi mereka yang dalam pekerjaannya terkait dengan perhitungan rancangan struktur Secara garis besar buku ini terbagi dalam tiga bagian utama bagian pertama adalah bagian yang membahas tentang struktur statis tertentu bagian berikutnya membahas tentang analisis struktur statis tak tentu balok gerber dan bagian akhir membahas tentang analisis struktur rangka batang Setiap bab di dalam buku ini dilengkapi contoh soal berikut cara penyelesaiannya untuk meningkatkan kemampuan pembaca dalam hal analisis struktur

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