

## Rumus Dasar Perhitungan Poros

1) Momen Puntir:

$$T = 9,74 \cdot 10^5 \cdot \frac{Pd}{n}$$

Keterangan:

Pd = Daya rencana (watt)

n = Putaran poros (rpm)

2) Momen Torsi:

$$T = \frac{Pd}{\omega}$$

Keterangan:

T = Momen torsi (kgm)

Pd = Daya rencana (watt)

$\omega$  = Kecepatan sudut (rad/s)

3) Momen Torsi yang Diperlukan:

$$T = \frac{Pd}{\omega}$$

Keterangan:

T = Momen torsi yang diperlukan (kgm)

Pd = Daya rencana yang diperlukan (watt)

$\omega$  = Kecepatan sudut yang diperlukan (rad/s)

$\omega$  = Kecepatan sudut yang diperlukan (rpm)

4) Daya yang diperlukan:

$$P = T \cdot \omega$$

Keterangan:

P = Daya yang diperlukan (watt)

T = Momen torsi (kgm)

$\omega$  = Kecepatan sudut (rad/s)

# Rumus Engineering

**Ir. Hanafiah H.Z., M.T.,Zairipan Jaya,  
S.T., M.T.,Muhammad Reza, M.Eng.**

## **Rumus Engineering:**

*Engineering*, 1883 Rekayasa Fondasi Ir. Hanafiah H.Z., M.T., Zairipan Jaya, S.T., M.T., Muhammad Reza, M.Eng., Materi pokok rekayasa fondasi mencakup pengetahuan dasar berupa teori teori dan pengetahuan terapan yaitu penyelesaian kasus kasus perencanaan yang ada di lapangan Pengetahuan dasar diperlukan karena merupakan hal dasar yang memengaruhi optimalisasi desain fondasi bangunan di lapangan Pengetahuan terapan mencakup penjelasan metode perhitungan rumus rumus yang relevan bagi perencanaan fondasi meliputi desain dimensi fondasi kedalaman serta penurunan dan stabilitas terhadap gaya gaya internal dan eksternal Buku Rekayasa Fondasi untuk Program Vokasi disusun karena adanya keterbatasan referensi tentang materi fondasi dangkal dan fondasi dalam yang mudah dipelajari mahasiswa Untuk itu ketika ada kesempatan untuk menyusun materi rekayasa fondasi penulis beserta teman teman pengajar yang sebidang berusaha menyajikan materi buku ajar yang sesuai dengan kebutuhan silabus program vokasi Mencakup materi fondasi dangkal shallow foundation dan fondasi dalam depth foundation **Pengantar Engineering , Proceedings of Indonesian Association of Geologists: Developments in engineering, environment, and numerical geology** Ikatan Ahli Geologi Indonesia. Pertemuan Ilmiah, 1999 Process Engineering, 1986 Allis-Chalmers Engineering Review, 1946 **Ilmu Terapan Engineer Kapal**, 2025-03-11 JUDUL BUKU Ilmu Terapan Engineer Kapal PENULIS Budi Utomo S M M Mar E NO ISBN 978 623 421 728 5 PENERBIT Guepedia TAHUN TERBIT Maret 2025 JENIS BUKU Buku Teknik Pembelajaran Non Fiksi KONDISI BUKU Buku Baru Buku Original Asli Langsung dari Penerbitnya Sinopsis Ilmu Terapan Engineer Kapal merupakan kumpulan ilmu pengetahuan dan pengalaman kerja penulis Isi buku yang berbobot dengan narasi sederhana dan mudah dipahami yang tersusun mulai dari penjabaran dasar teori cara kerja permesinan serta contoh troubleshooting permesinan diatas kapal Hal yang sangat menarik adalah adanya artikel Quick Share yang berisikan tentang share ilmu pengetahuan yang dikemas dalam kalimat yang singkat padat jelas dan mudah dipahami Sebagai bekal untuk memudahkan para engineer melakukan perencanaan pelayaran menuju pelabuhan tujuan buku ini juga dilengkapi dengan rumus dan contoh perhitungan pemakaian bahan bakar pada putaran mesin yang berbeda displacement yang berbeda serta perhitungan bahan bakar yang lainnya Selain pembahasan dan penjabaran hal hal yang sifatnya teknis tentang permesinan diatas kapal buku ini juga dilengkapi dengan pengetahuan umum non teknis tentang pengetahuan ISM Code dasar ke nautika an pengetahuan dasar tentang safety on board serta dasar teori tentang salvage penyelamatan kapal Lengkap untuk melengkapi hard skills dan soft skills para engineer diatas kapal www guepedia com Email guepedia gmail com WA di 081287602508 Happy shopping reading Enjoy your day guys **REKAYASA GEOTEKNIK** Dr. Ir. Agus Wibowo, M.Kom, M.Si, MM, 2025-12-01 Puji syukur penulis panjatkan kepada Tuhan Yang Maha Esa atas segala rahmat bimbingan dan karunia Nya sehingga buku berjudul Rekayasa Geoteknik ini dapat diselesaikan dengan baik dan layak untuk dipublikasikan Buku ini lahir dari kebutuhan akan sumber referensi yang komprehensif terstruktur dan aplikatif dalam bidang rekayasa

geoteknik khususnya untuk mendukung proses pembelajaran dan praktik profesional di Indonesia Bidang ini sangat esensial sebagai fondasi dalam pembangunan infrastruktur yang aman dan tahan lama Rekayasa geoteknik merupakan cabang ilmu teknik sipil yang mempelajari perilaku tanah dan batuan sebagai media penopang bangunan Berangkat dari sejarah panjang mekanika tanah yang dimulai sejak sebelum abad ke 18 hingga era modern buku ini mengupas berbagai aspek fundamental dan terapan yang diperlukan oleh mahasiswa praktisi serta peneliti Dalam konteks pembangunan yang semakin kompleks dan tuntutan keamanan yang tinggi pemahaman mendalam dan teknik terkini sangat diperlukan Buku ini dibagi ke dalam 14 bab utama yang disusun secara sistematis dan menyeluruh mulai dari perspektif historis sifat sifat mekanis tanah sampai dengan aplikasi desain pondasi dan konstruksi dinding penahan Tiap bab dilengkapi dengan penjelasan teoretis diagram rumus serta metode pengujian laboratorium maupun lapangan yang diharapkan dapat memperkaya pengalaman belajar pembaca serta diterapkan dalam pekerjaan lapangan Bab 1 membahas perkembangan rekayasa geoteknik dari zaman pra abad ke 18 hingga teknik modern memberikan pembaca wawasan historis yang penting untuk mengerti akar dan evolusi ilmu ini Bab 2 mendalami analisis endapan tanah dan ukuran butiran yang menjadi dasar karakteristik tanah sehingga pembaca paham beragam tipe tanah yang dihadapi dalam proyek Bab 3 menguraikan hubungan berat volume tanah plastisitas dan klasifikasi tanah secara terperinci yang penting dalam analisis dan desain Bab 4 membahas teknik pemadatan tanah agar tanah mencapai kekuatan dan stabilitas yang optimal sesuai standar pengujian Bab 5 menelaah konduktivitas hidrolis dan rembesan yang berperan besar dalam dinamika air tanah yang memengaruhi kestabilan struktur Bab 6 menjelaskan tegangan mencapai massa tanah dan perhitungan distribusi beban esensial untuk desain pondasi dan stabilitas tanah Bab 7 berfokus pada konsolidasi tanah termasuk uji laboratorium teoritis dan aplikasinya dalam menilai penurunan tanah akibat beban Bab 8 membahas kekuatan geser tanah sebagai indikator utama stabilitas tanah terhadap deformasi dan kegagalan iii Bab 9 menguraikan stabilitas lereng dan metode analisis kegagalan penting dalam perencanaan lereng aman Bab 10 membahas teknik eksplorasi bawah permukaan prosedur pengambilan sampel hingga pengujian yang menjadi tahapan awal tiap proyek geoteknik Bab 11 memberi pemahaman tekanan tanah lateral dan aplikasinya dalam desain dinding penahan tanah Bab 12 fokus pada daya dukung pondasi dangkal dan penurunan tanah membekali pembaca dengan teori dan praktek penting desain pondasi Bab 13 menjelaskan teknik perancangan dinding penahan tanah dan potongan berpenguat serta serangkaian pertimbangan desain yang kritis bagi stabilitas struktur Bab 14 membahas pondasi tiang pancang dan poros bor termasuk metode perhitungan kapasitas beban dan teknik pemasangan yang esensial untuk pondasi dalam Semua bab disajikan secara runut untuk menciptakan pemahaman yang terintegrasi antara konsep dasar dan aplikasi nyata di lapangan Penulis mengucapkan terima kasih yang mendalam kepada semua pihak yang telah memberikan dukungan terutama para akademisi praktisi geoteknik kolega serta keluarga yang senantiasa memberikan dorongan moral dan materiil selama proses penulisan buku ini Kritik dan saran dari pembaca sangat dinantikan sebagai masukan berharga untuk meningkatkan kualitas

edisi selanjutnya Buku ini diharapkan dapat menjadi sarana yang berguna dalam meningkatkan kualitas pembelajaran dan praktik rekayasa geoteknik mendukung pembangunan infrastruktur yang handal dan berkelanjutan di Indonesia Semoga kiranya buku ini memberikan manfaat luas dan berkah bagi semua pembacanya Semarang Desember 2025 Penulis Dr Ir Agus Wibowo M Kom M Si MM *Spiritual Economies* Daromir Rudnyckj,2011-06-15 In Europe and North America Muslims are often represented in conflict with modernity but what could be more modern than motivational programs that represent Islamic practice as conducive to business success and personal growth Daromir Rudnyckj s innovative and surprising book challenges widespread assumptions about contemporary Islam by showing how moderate Muslims in Southeast Asia are reinterpreting Islam not to reject modernity but to create a spiritual economy consisting of practices conducive to globalization Drawing on more than two years of research in Indonesia most of which took place at state owned Krakatau Steel Rudnyckj shows how self styled spiritual reformers seek to enhance the Islamic piety of workers across Southeast Asia and beyond Deploying vivid description and a keen ethnographic sensibility Rudnyckj depicts a program called Emotional and Spiritual Quotient ESQ training that reconfigures Islamic practice and history to make the religion compatible with principles for corporate success found in Euro American management texts self help manuals and life coaching sessions The prophet Muhammad is represented as a model for a corporate CEO and the five pillars of Islam as directives for self discipline personal responsibility and achieving win win solutions *Spiritual Economies* reveals how capitalism and religion are converging in Indonesia and other parts of the developing and developed world Rudnyckj offers an alternative to the commonly held view that religious practice serves as a refuge from or means of resistance against modernization and neoliberalism Moreover his innovative approach charts new avenues for future research on globalization religion and the predicaments of modern life Chemical Engineering ,2001 *Journal of Engineering for Industry* ,1984

**RANCANG BANGUN TEKNIK JEMBATAN JILID 2** Dr. Ir. Agus Wibowo, M.Kom, M.Si, MM,2026-02-09 Puji syukur kami panjatkan ke hadirat Tuhan Yang Maha Esa atas rahmat Nya sehingga buku Rancang Bangun Teknik Jembatan Jilid 2 ini dapat diselesaikan dan diterbitkan Buku ini merupakan kelanjutan dari Jilid 1 yang membahas dasar dasar perancangan jembatan dengan fokus mendalam pada elemen elemen struktural lanjutan pertimbangan geoteknik serta desain tahan gempa bumi yang semakin krusial di wilayah rawan seismik seperti Indonesia Jilid 2 ini mencakup 19 bab yang komprehensif dimulai dari bantalan jembatan pilar menara abutmen hingga fondasi dangkal dan dalam Pembahasan lanjutan menyoroti aspek geoteknik analisis dinamis nonlinier filosofi desain seismik berbasis kinerja serta praktik perbaikan dan isolasi seismik Khususnya Bab 8 19 mengintegrasikan pelajaran dari gempa bumi besar dunia termasuk praktik desain seismik di Jepang untuk mendukung pengembangan infrastruktur jembatan yang aman tahan lama dan estetis Materi ini didukung data empiris rumus desain serta contoh analisis yang praktis sesuai standar internasional seperti AASHTO dan adaptasi lokal Buku ini ditujukan bagi mahasiswa teknik sipil dosen insinyur konsultan dan praktisi konstruksi yang ingin menguasai rancang

bangun jembatan modern Dengan pendekatan yang sistematis dari konsep hingga aplikasi kami berharap karya ini berkontribusi pada peningkatan kualitas infrastruktur transportasi nasional mengurangi risiko bencana dan mendukung pembangunan berkelanjutan Kami mengucapkan terima kasih kepada rekan rekan akademisi reviewer dan penerbit yang telah memberikan masukan berharga Kritik dan saran pembaca sangat kami harapkan untuk perbaikan edisi mendatang

**Indonesian Human Resource Handbook 2005**, 2005 *The War of the rebellion: a compilation of the official records of the Union and Confederate armies, prepared by R.N. Scott [and others]. 4 ser. 69 vols. [in 127 pt. 'Additions and corrections', dated 1902, have been inserted in the vols. With] Ser.1. Index to battles, campaigns, etc* United States dept. of war, 1893 The War of the Rebellion United States. War Department, 1893 **Overseas Railways**, 1958 House documents, 1893 Lembaran publikasi Lembaga Minyak dan Gas Bumi, 1973 *Environmental Engineering Education in Europe* Mogens Henze, W. Gujer, B. Pfister, 2000-05-31 The discipline of environmental engineering is young and rapidly evolving Once viewed largely as a sub set of civil engineering with a particular focus on water sanitation it has now grown to engage with all aspects of the human and terrestrial environment Beyond this fact however there is much debate on the definition of environmental engineering and on its intersections and overlaps with other more traditional fields of engineering This development poses problems for those constructing programmes of study for the next generations of environmental engineers These selected proceedings reflect the lively debate that started with differing views on the scope of environmental engineering Though concentrating on environmental education in European countries very fruitful comparisons were drawn with the situation in the USA and Japan The differences in curricular content and educational philosophy are examined as are attempts to overcome the barriers of culture language and the varying modes of certification of practising engineers These proceedings will help to set a framework that can move these debates forward and will be highly valuable to all engineers and educationalists concerned with the future of environmental engineering education and the wider role of the engineering profession **Buku Istilah Teknik** Panitya Istilah Teknik P.U.T.-U.G.M., Achmad Antono, 1972

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