
CHAPTER 5

Correlation and linear regression

5.1 Correlation

Let $(x_1, y_1), (x_2, y_2), \dots, (x_n, y_n)$ represent n points on a scatterplot. Then the **correlation coefficient**, denoted by r , is the average of the products of the z -scores, except that we divide by $n - 1$ instead of n . That is

$$r = \frac{1}{n - 1} \sum_{i=1}^n \left(\frac{x_i - \bar{x}}{s_x} \right) \left(\frac{y_i - \bar{y}}{s_y} \right) \quad (5.1)$$

where s_x and s_y are the standard deviation for x and y respectively.

Equivalently, the correlation coefficient can be given as

$$r = \frac{\sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2} \sqrt{\sum_{i=1}^n (y_i - \bar{y})^2}}$$

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Order and Fluctuations in Equilibrium and Nonequilibrium Statistical Mechanics G. Nicolis,G. Dewel,J. W. Turner,1981-02-16 Coverage of the XVIIth Solvay Conference on Physics held at the Universit Libre in Brussels from November 20 to November 24 1978 Provides an account of the different areas of physics where transition to ordered behavior occurs and reveals the similarities and differences of involved concepts and techniques *Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews* ,1988 *Applications of Mathematics in Modern Optics* William H. Carter,1982 *American Journal of Physics* ,1978

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contoh penghitungan berat besi beton indosteger akan memberikan contoh penghitungan berat besi beton untuk anda terapkan saat berbelanja material ini diameter besi beton yang anda temukan adalah 16 mm dan panjang 12 m berapakah berat besi beton tersebut massa besi beton $0.006165 \times d^2 \times l$ $0.006165 \times 16^2 \times 12 = 18.938$ kg

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gedung adalah suatu konstruksi bangunan buatan manusia yang terbuat dari beberapa material menjadi satu kesatuan untuk dijadikan tempat beraktivitas perhitungan analisis pada gedung bertingkat sangat penting agar konstruksi gedung memiliki kekuatan yang kokoh dan sesuai dengan umur rencana

estimasi anggaran biaya konstruksi gedung beringkat - Apr 26 2023

daftar biaya komponen kegiatan vol pondasi $0.054 \text{ m}^2 \times 112.57 \text{ m} = 6.08 \text{ m}^3$ pembangunan bangunan gedung volume aanstamping volume lantai kerja klasifikasi tidak sederhana luas aanstamping 0.8×0.15 luas dalam ribuan rupiah biaya biaya biaya total lantai kerja 0.8×0.05 konstruk perencan manajemen

perhitungan struktur beton bertulang gedung - Sep 19 2022

perhitungan struktur beton bertulang gedung kantor tujuh lantai di pontianak arikris siboro1 m yusuf2 aryanto2 abstrak dewasa ini pertumbuhan penduduk semakin pesat disusul dengan semakin banyaknya pembangunan gedung gedung hal ini mengakibatkan terjadinya penyempitan lahan

cara menghitung kekuatan besi plat lantai beton mitraruma - Dec 23 2022

perlu diingat ya bahwa cara menghitung kekuatan lantai beton ini hanya sekedar rule of thumb alias gambaran kasarnya saja $1/40 \times l$ adalah lebar bentang misalnya bangunan 4×4 m maka $1/40 \times 4$ atau 10 cm rumus balok $1/12 \times l$ jadi balok yang mesti dipersiapkan untuk menahan beban adalah $1/12 \times 10$ atau 33 cm terkadang

cara menghitung volume beton bertulang dan tidak bertulang - Jan 24 2023

sep 13 2019 cara menghitung volume beton terdiri dari 2 cara yaitu cara menghitung volume beton tanpa tulangan dan cara menghitung volume beton bertulang di dalam perhitungan material konstruksi beton tercampur berdasarkan susunan agregat dari yang terhalus sampai ke yang paling kasar dengan campuran material semen pasir dan kerikil

perencanaan gedung bank 6 lantai dengan menggunakan struktur beton - Mar 14 2022

pada balok beton bertulang digunakan dimensi 400×1000 350×700 300×600 250×500 250×400 200×400 dan 150×300 sedangkan untuk tulangan longitudinal menggunakan tulangan diameter d22 d19 d16 d13 dan d10 tulangan transversal menggunakan tulangan diameter $\emptyset 10$ dan $\emptyset 8$

perencanaan struktur beton bertulang gedung - Jul 30 2023

perencanaan bangunan gedung bertingkat akan mempertimbangkan efisiensi dan mengacu pada peraturan sni 2847 2019 tentang persyaratan beton struktural untuk bangunan gedung dan sni 1726 2019 yaitu tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan non gedung

perancangan gedung bertingkat 10 lantai dengan beton bertulang mutu - Aug 31 2023

perancangan gedung bertingkat 10 lantai dengan beton bertulang mutu tinggi ida ayu putu eka chandra saraswati nrp 0311174000023 hilda imama rofiq nrp 0311174000060 surabaya desember 2020 menyetujui dosen pembimbing bambang piscesa s t m t ph d nip 198403182008121002 1 mengetahui sekretaris

contoh laporan struktur bangunan gedung bertingkat download gratis - Jun 28 2023

contoh laporan hitungan struktur bangunan gedung bertingkat pada pekerjaan perencanaan suatu bangunan maka akan dilakukan survey lokasi dan pengambilan data situasi pada lokasi tersebut misalnya seperti countur tanah elevasi sondir tanah akses jalan keadaan sekitar