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Глава 2 SM: Экспериментальные методы для инженеров 4 2-12 2 2 дюйма сек 0,25 дюйма; 386 in/sec 986 39.4 rad/sec 0.25 in. n g g w = = = = = 2-14 0 0 39.4 rad/sec 6.27 Hz for 0 20 3.19 0.108 40 6.38 0.025 60 9.57 0.011 n F n c k w xw c w w c = = = 2-15 0 1 At 0, 10 liters, 6 0.6 hr cdV V cV e d V dV V d c = = = = = = 2-16 2 2 2 2 2 2 2 2 2 2 (1 lbf/in)(4.448 N/lbf)(144 in /ft)(3.28 ft /m) 6890 N/m 1 kgf 9.806 N 1 lbf/in (6890)(9.806) 67570 kgf/m 6.757 kp/cm = = = = = 2-17 3 3 3 3 3 3 3 1 (mi/gal)(5280 ft/mi) gal/in (1728 in /ft) 231 1 (35.313 ft /m) m /l (3.2808 10 km/ft) 4.576 km/l 1000 = 2-18 2 2 lbm ft (lbf-s/ft) 32.17 32.17 lbm/s ft (0.454 kg/lbm)(3.2808 ft/m) lbf s 47.92 kg/ м с 2-19 4 1 Btu 5 (kJ/kgC) (0,454 кг/lbm) C/ F 0.2391 Btu/lbm F 1.055 kJ 9 1 ккал 1 кг (kJ/kg C) 2.391 10 ккал/г- C 4.182 kJ 1000 г й 2-20 3 3 3 6 3 1 1 (г/м)(0.02832 м/фут) lbm/g slug/lbm 454 32.17 1.939 10 слизняк / фут 8. SM: Methods for Engineers Chapter 2 5 2-21 7 6 5 1 9 (Btu/h-ft-F) (1055 J/Btu) sec/h (10 erg/J) F/ C 3600 5 1 5.275 5.. 275 1 10 erg/cm 12 2.54 1,731 erg/scm C - 2-22 2 21 ft (cm/cm) 1,076 feet / 2.54 12 cm cm. 3 3 3Btu 1 м (W /m) 3.413 0.09664 Btu/hft Wh 3.2808 ft 2-24 2 5 2 2 фунта футов (dyn s/cm)(10 N/dyn) (0.224) 8 lbf/N) (2.54 12 cm/ft) 32.17 lbf s 0.0672 lbm/s ft 3600 s/h lhm 241.8 h ft 2.54 144cm в 2 2 3.413 Btu/W h см Btu/hr-ft cm W W 3170 - 2-26 Нм фут фунт кг 5 lbm 9 R 0.3048 4.448ft-lbf J 1545 8 305 фунтов моль R кг моль К0.454 R - 2-27 33 3 3 2 3 см в 1 гал с 231 см в см гал/ мин с 1 2,54 0,01585 й 2-28 9 R K 5 й 9. 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SM: Experimental Methods for Engineers Chapter 2 7 2-33 0 10 2 10 Hz 0.4 50 Hz From Fig. 2-6, For 1.0 0.3 10 33 Hz 0.3 F k c n n x c c = = = = > < = 2-34 1 50 tan 1.1918 (2)(1.1918) 2.3835 1 1 1 2 2 ( ) ( ) ( ) = 67.3 - = - = - = = = 2 1/2 2 1/2 1 At amp response 0.643 [1 1.1918] 1 At amp response 0.387 [1 2.384] 1 2 = + = + 2-35 1/2 3 Hz 18.85 rad/s 0.5 sec ( ) tan 1[(18.85)(0.5)] 8.39 0.1055 2 1 [1 + ( )] = = = = = = 2-36 0 / 35 C 110 C (8 sec) 75 C 75 110 35 110 0.7621 810.7621 10.497 sec 90 rise time 2.303 24.174 sec t T T T e t % = = = = = = = = = 2-38 static sens 1.0 V/kgf output (10)(1.0) 10.0 V = = = 2-39 1 / 5 6 rise time 0.003 ms 0.1 1 7.86 10 1.303 10 in ohm , в фараде Rc tt e e RC RC R C Chapter 2 SM: Experimental Methods for Engineers 8 2-42 0 /0.1 0.1sec 100 C 15 C ( ) 17 C 17 15 100 15 3.75 0.1 0.375 sec t T T T t e t t = = = = = = = 2-43 2 1/2 1 1 0.9 [1 ( )] 0.4843 to 4.84 rad/s ( ) tan (0.4843) 25.84 0.451 rad 0.451 0.093 sec 4.84 t - = + = = - = - = D = = 2-44 ( ) ( )( ) 1/2 2 22 1 1 3 3 1 500 Hz 1500 Hz 3 1 0.98 1 (2) 0.619 c n n c c c c c = = = = - + = 2-45 6 1 (1 10 6) 7 1 10 sec 90% rise time 0.1 4.34 10 in ohm, in farads RC t e RC R C - - - - = = = = 2-46 5 2 1/2 2 hr 1 2 cyc/hr 9.27 10 rad/sec 24 (24)(3600) ( ) 2 hr 3600sec ( ) 0.2618 rad tan( ) 0.2679 0.2679 3685sec 1.024 hr 7.27 1 Amp. response 0.966 [1 ( )] t t 5 10 = = = = = = = = = = = = = = = + 12. С.М.: Экспериментальные методы для инженеров Глава 2 9 2-47 1/2 1/2 1,3 кг 100 Н/м 100 8,77 рад /с 1,3 2 (1,3)(100) 72,11 1,0 С рисунка 2-8, 3,6 за 90 3,6 0,41 сек. 8,77 x x x x x x x x x й 2-48 0,1 с рисунка 2-9, 3,1. 3.1 0.353 сек 8.77 - c c c t t 2-49 0 ( ) 0.9 1.5 6.2 С рисунка 6.2, 0.71 sec. 8.77 - y with n t c c c t t 2-50 0 0 1 sec, 8.77 5.7 0.79 72.11 With figure 2-9, 1.8. - n c c c c c c x x 2-51 12 12 0 11 Rise time 10 with At 1.0 and 0.9, 3.6, 3.7 10 rad/s 5.7 10 GHz 570 GHz n s c x x x x th th th 2-52 1.5 12 12 1/2 0 1000 lbs 22 003 kg 1000 lbf 8000 lbf/ft 117,000 N/m 117,000 7.29 rad/s 2203 At 0.9 1.0 3.6 3.6 0.4Page 21. Instructor's decision guide 2. Instructor solution guide to accompany experimental techniques for engineers of the eighth edition of J. p. Holman Professor of Mechanical ... Guide to solution for experimental techniques for engineers 8th edition of holman link download: ... Perry Chemical Engineers guide about editors Don W. 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Space: Full online solutions manual system organization Chapter 16, Solution 1. ∑ m a-n-b (1.5 m) sin 60 (294.3 p) (0.75 m) (cos 60 (30 kg) 4 m/s... a00 a01-02 a05-06 a07-11 a12-17 a18-19 chapter_01 chapter_02 chapter_03 chapter_04cosmos: complete online solutions to the manual system of the organization of Chapter 3, solution 1. solve 90 n forces in vector components p and d, where q q q (90 n) sin 40 57,851 ... laser synchronization and time distribution through the fiber network using femtosecond mode of blocked lasers by Kevin Holman Gila, National Institute of Standards and Technology... various strummer page 22 vintage guitars magazine July 1997 holman guitar signatory in the company. During this de-no, various holman guitars were dis- played and stan... 1. our school 2. our school is the first primary school in Jian. 3. Classes have many general classes and some special classes. for example: physics, chemistry... 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