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Online Instructor's Solutions Manual

to accompany

Applied Mechanics for Engineering Technology

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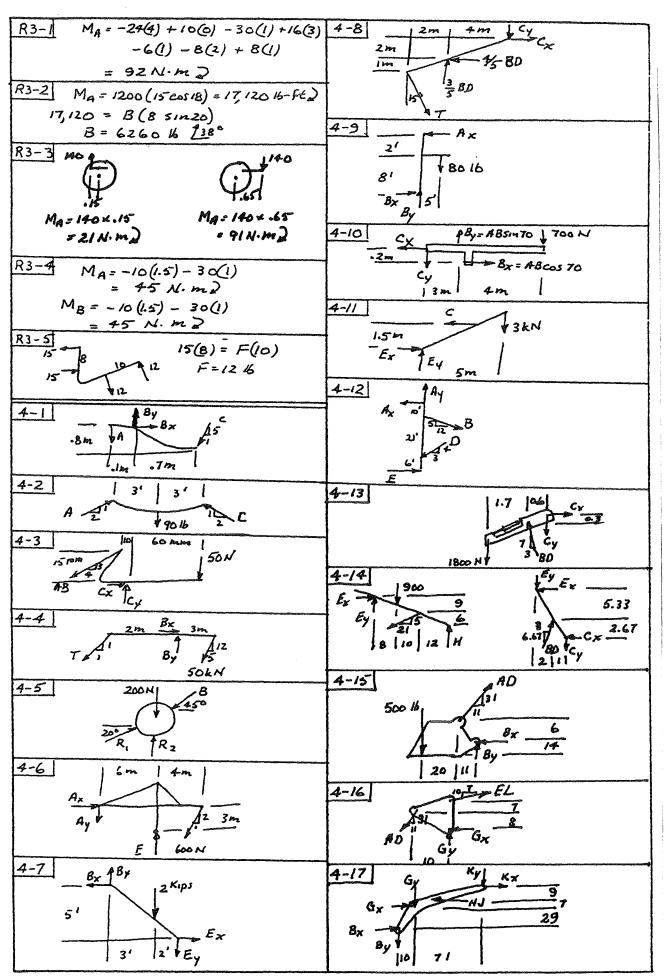
-1 24 + 8x - 12x = 8x	1-17 R = 5in 0 = 36.9°
8x - 12x - 8x = -24	R=131n -= 67.4°
X = 2	R = 17 += 28.1°
1-2 12+6X+3=27 $6X = 27-12-3$	1-18 tan 20 = A A = 2.18 in
x = 2 $1-3$ $28 = 3x + 5x$	tan 40 = A = 3.36 Ff
72 ~	'
$=\frac{4}{12} \times + \frac{5}{12} \times$	$tan 55 = \frac{20}{A} A = 14 m.$
$=\frac{14}{12}\chi$	1-19 SING = 25 0 = 38.7°
$\frac{28 \times 12}{14} = X$ $\chi = 24$	1-20 tan 65 = 4 y = 8.58 mm
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ -21 $ $Sin \Theta = \frac{33}{72}$ $\Theta = 27.3^{\circ}$
46 y = 80 y = 1.74	1-22 C2 = 152 + 422 - 2(15)(42) Cos 120
	C = 51.2 cm
$1-5$ 0×8 $176 \times + 24 y = 968$ 2×3 $39 \times -24 y = 168$	1-23 C2=152+252-2(15)(25) Cos 65
215x + 0 = 1136	C = 23.1 Ft
× = 5.28	1-24 (5.5) = 32 + 42 - 2(3)(4) cos +
$1-6$ $X = +2 \pm \sqrt{4 - (4)(13) - 8)^{1}}$	0 = 17.36 (2nd quedrant)
(2)(3) = +2 ± 20.5	$1-2\frac{\pi}{2}$ $(c8)^2 = 55^2 + 90^2 - 2(55)(90)\cos 25$
26	1
= 0.865 01-0.7/2	$\frac{CB = 46.2 \text{ in.}}{1-26}$ $\frac{1-26}{4^2 = 6^2 + 8^2 = 36 \sqrt{8} \sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6} \sqrt{6} 6$
$\frac{1-7}{x}$ $(3x)x + \frac{5}{x}(x) = 8(x)$	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3x2-8x+5=0	d = 12.7 m
$x = -(-8) \pm \sqrt{(-8)^2 - (4)(3)(5)^2}$	1-27 (CD)2 = (25)24(4)2-2(25)(4) cos 160
$x = +8 \pm \sqrt{64-60}$	$\frac{c0 = 0.174 m}{1-281 A}$
6	$\frac{1-281}{5in/20} \frac{A}{5in/20} = \frac{50}{5in/20} A = 12719.$
$x = 1.67$ or 1 1-8 $a = 35^{\circ}$ opposite angle	1-29 AC = 640 AC = 913 Ft
b = 180 - 35 - 90 = 55° C = 180 - 55 = 125°	AD 640 AD = 865 Ft Sin42
1-9 a= 80° opposite angle	$\frac{1-30}{5m40} \frac{d}{5m40} = \frac{14}{5m105} d = 9.32 m$
b = 180-80 = 100° C = 100° opposite angle	5 m 40 S m 105
1-10 a=90-40=50°	48
b = 15° opposite angle C = 180-50-15 = 115° d = 180-115 = 65°	1-32 6 X Sin70 Sin40 10 34
e = 65° apposite angle	x = 4.15t n 6
$\frac{1-11}{7} = \frac{ED}{5} = \frac{ED}{5} = \frac{21}{5} \times 5 = 15 \text{ in.}$	1021
1-12 $CE = 12.5 8 = 5 $ $CE = 12.5 + 8 = 20m$	11.46 included angle = 11.46
$1-13$ $A=20 \sin 38^\circ = 12.3 m$	$\frac{1-34}{10}$ $\cos 50 = \frac{y}{10}$ $y = 6.43 \text{ in}$
1-14 COSO = 4 0 = 66.4°	h = 10 - 6.43 = 3.57 in.
1-15 tano = 6 A = 16.5 Ft	1-35 X = 3.3 COS 55 = 1.9 in.
1-16 tan 70° = 4 y = 11m	$y = 3.3 \sin 55 = 2.7 in.$
y=1/m	1-36 Corner Width = 1.875/cos30 = 2.17 in.

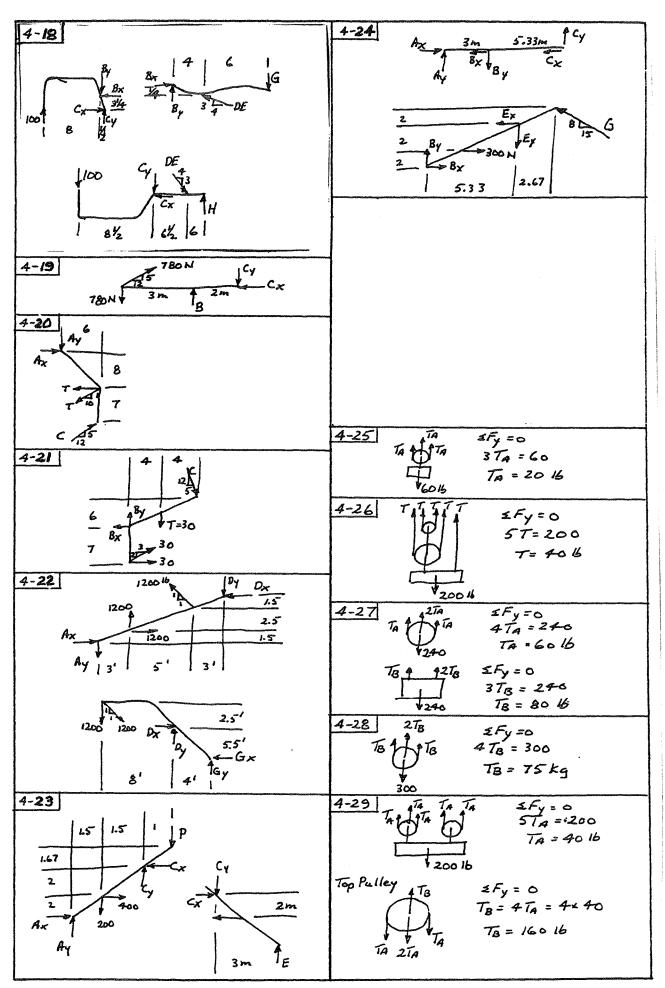
d2 = (3.75)2+(3.75)2-2(3.75)2cos/20 $\frac{RI-4}{5in\phi} = \frac{2.8}{5in40}$ $\phi = 53.5^{\circ}$ d=6.49 cm > c2 = .52+22-2(.5/2) cos 105 1-381 @= 180-40-53.5 = 86.5° RI-5 (160)2=(120)2+(85)2-2(120)(85)cos = C=2018 m 2.18 - 5 d= 12.8° Sin/of Sind :- 0= 12.8° 0 = 101° R1-6 $\frac{5}{\sin 40} = \frac{3}{\sin 4}$ 0 - 22.69° x2 = 202 - 92 X = 19.979 Ø=180-2269-40= 117.30 tan 340 = d R = 5 | R = 6.91 m d = 13.476 RI-7 original triangle ABC h = 13.476+.33 = 13.867m 1-40 0 (BD) = 32+22-2(3)(2) cos 120 $\frac{2}{\sin \phi} = \frac{1.8}{\sin 50}$ $\phi_1 = 5830$ BD = 4.36 m $(2)(80)^2 = 3^2 + 2^2 - 2(3)(2) \cos 50$ 180-50-58.3=71.70 AC = 1.8 AC = 2.23 BD = 2.29 final triangle ABC A drops 4.36-2.29 = 2.07m 1-41 $x_1 = \frac{2}{\tan 30} = 3.47$ 3 / (BC) = 22+2.232-2×2.23 Cos 80° BC = 2.72 dz=6 325 d,= 2 = 4 $\frac{2}{\sin \phi_2} = \frac{2.72}{\sin 80} \quad \phi_2 = 46.4^{\circ}$ 5/n = 3.25 : 0 = 1/2.7° 0=717-46.4=25,3° R1-8 | (AC)2=.52+.22-2(.2)(.5) cos 6° Ø= 37.3° $\frac{\chi_2}{\sin 37.3} = \frac{3.25}{\sin 30}$ $\chi_2 = 3.94$ AC = 0.302 302 5 5/n6° 5/n6 0 = 170° Moriz. dist. = 3.47+3.94=7.4/m. 1-42 Sin 105 = 2.5 Sin 105 = Sin-0 -G-= 23.7° Φ=360-170-80-70 -2 B Ø= 186-23-7-105 = 57.30 (B1)2=(2)2+(302)2-2(-2)(302) Cos 40 $\frac{d}{5 \ln 5/.3} = \frac{6}{5 \ln \log 5} d = 4.85 m$ CB' = 0.197m X = 2.5 sin 51.3 = 1.95 m RI-9 (AB)2 = (20)2+(60)2-2(20)(60)605115 1-43 5in Q = 13.5 AB = 70.81 Di = 21.10 20 = 70.81 = 14.86 : 02 = 4-2.2° SIn 115 €3 = 42.2° $\frac{8}{5in\phi_i} = \frac{5}{5in_{30}} \phi_i = 126.870$ R1-10 04 = 21.1° -= 90-21.1 = 68.9° .:d, = 23./3° 0 = 68.9+42.2=111.1° $\frac{X_1}{\sin 23.13} = \frac{5}{\sin 30}$ $X_1 = 3.928$ RI-1 X = 15 cos 25 = 13.6 m y = 15 sin 25 = 6.34 m $\frac{8}{\sin \phi_2} = \frac{5}{\sin 20} \quad \phi_2 = 146.82^\circ$ R1-2 cos $18 = \frac{4.5}{B}$ B = 4.73 m:.d, = /3.18 ° tan 18 - A = 1.46 m $\frac{x_2}{\sin 3.18} = \frac{5}{\sin 20} \quad x_2 = 3.333$ 92 = 62 +52 - 2(6)(5) cos & horiz. dist. of C = 3.928-3.333 = 0.595 in or 0 = 109.5° (2nd quadrant) RI-11 (40)2=(35)2+(45)2-2(35)(45) Cos + 0 = 58.4°

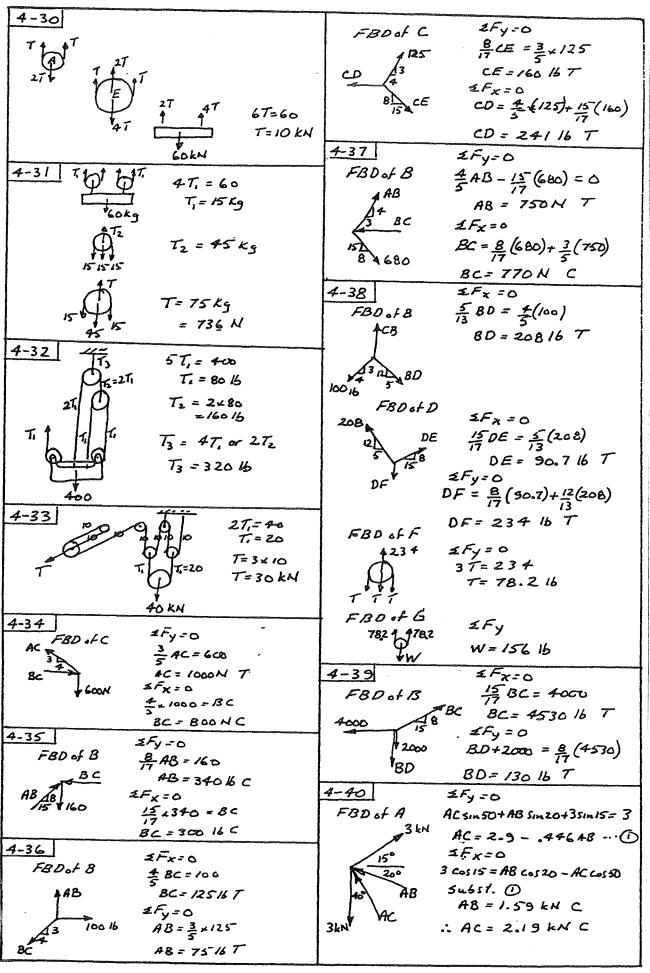
R1-121 AC2 = 42+52-24445 Cas 1431 2-14 $R^2 = 400^2 + 150^2 - 2(400)(150)(6540)$ AC = 8.54 h = 5 sm 36.9 = 3 R = 301 16 48.79 (0) 0 = 4 0 = 60° 301 301 = 150 Sin40 = Sin & -O- = 18.7° (AC') = 4452 2×9×5 COS60 30+187=48.70 AC' = 4.58 2-15 Sin 0 = 2.5 0 = 22.6° AAC = 3.96 m 100 16 A 22.60 R = 42.7 16 A8 Sin 134.8 = 100 Sin 22.60 2-2 60.216 My 126 16 M. 3 1060 16 32.6 R= 18516+ R = 80.816 21. R=53915 1682 (11.3 $\frac{R}{\sin 157.4} = \frac{100}{\sin 11.3}$ R = 7210 16 327 2-4 R= 15.2 KN 23.20 R = 196 16 1120 R = 10.2 MN 78.7 R = 25 N \$36.9 2-/6 R= 632 N 35 2-5 *→ - 3*6.9° R = 17 16 A 15 180 - 55 - 36,9 = 88.16 R = 5 Kips /88.16 2-7 ⊕ = 9.5°° tan & = 250 2-17 .. R = 1.5N KN [29.5° Px = 25 5120 = 8.5516 Py = 25 Cos 20 = 23.5 16 \$ $2-8 \mid R = \sqrt{(1.5)^2 + 4^2} = 4.27$ Px = 2 Cos50 = 1.29 Kips -€ : 69.4° Py = 2 SIN 50 = 153 Kips 9 69.4412 = 81.4° Px = 20 cos 30 = 17.3 16 = R = 4.27 kN /81.40 Py = 20 sin 30 = 10 16 \$ 2-9 R= 1302+2021 ten 30 = 56.3° = 36.1 16 76.30 2-18 Fx = 8/7 285 = 40 N -56.3+20 = 76.30 Fy = 15/17 x 85 = 75N P Fx = .707 × 40 = 28.3 KN 2-10 R2 = 1202 + 2502 - 2(120)(250) cos 122 Fy= .707x40 = 283 KN + R = 300 N 80 Fx = 4/5 × 120 = 96 N -> 330 = 250 A = 40° Fy= 3/5×120 = 72N 1 SINIZZ SING 40+40=800 Fx = 12/2 x 52 = 48 kN . Fy = 5/3 = 52 = 20 KN+ R2= 302+402-2(30)(40) cos 130 2-11 2-19 Fy = 3016 7 Fx = 5216 -> R= 63.6 kN /38.8° Fy = 75.2 Kips + Fx = 27.4 Kips Sin 4 = 31n50 d = 28.8° Uy = 400 F/sec 1 Ux = 300 F/sec = Uy = 16 mph + Ux = 30 mph -R2= 202+152-2(20)(15) cos 100 2-20 Fx = 200 Cos 38 = 158 16= R=27 15 /61.80 Fy = 200 Sin 38 = 123 16 T O = 46.8 6 20 Fx = 28 Sm 25 = 11.8 Ft/sec= SINION SINO 46-8+15=61.86 Fy = 28 cos 25 - 25.4 Ft/sec + R2 = (6.5)2+(8) - 2(6.5)(8) cos 151.60 Fx = 190 Sin 63 = 169 16-2-18 Fy=190 cos63= 86.316 \$ R= 197.7 Fx = 860 Cos 20.5 = 806 16 R = 14.1 KN 33.50° Fy = 860 Sin 205 = 301 15 $\frac{6.5}{5in\phi} = \frac{14.1}{5in/57.6} \qquad \phi = 12.7 \circ 21.8 + 12.$ 21.8 + 12.7 = 34.50 Fx = 1.8 cos 80 = 0.3/3 kN-2-21 Fy=18 SIN80 = 1.77 KN + 2-22 Ax = 637.6 cos 45 = 45/ N-Ay = 451 N+

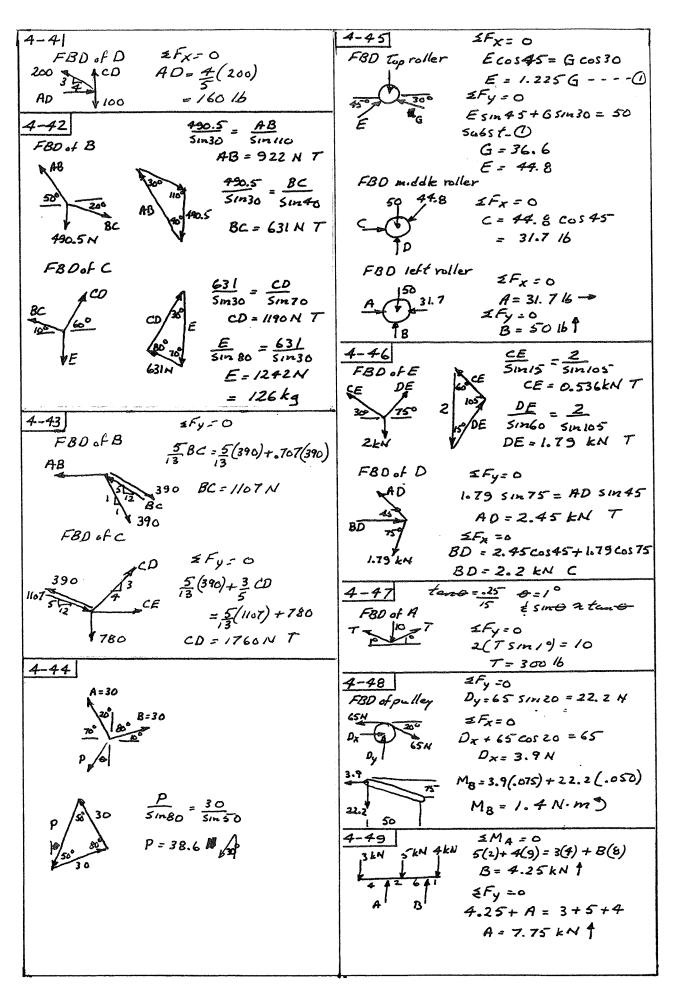
7	
2-23 Py= 100 sin 40 = 64.3 N 20	$\frac{2-35}{13}$ $R_{x} = \frac{12}{13}$, $52-20-\frac{3}{5}(30)-40$ cas 80
Px = 100 cos40 = 76.6N 200	
	= +3.054
$Q_y = 12 \cos 10 = 11.8 \text{ kN} \sqrt{70^{\circ}}$	$R_y = 5(52) + 4(30) - 40 sin 80$
Qx = 12 sin 10 = 2.1 kN /200	
Ry = 40 sin 16.8 = 11.6 N \$700	= 4.608 R = 5.53 kN 56.5°
Rx = 40 cos 16.8 = 38.3 N 20°	K = 5.53 KN /30.3
2 2/1	2-36 Rx = 70 cos 25 + 150 sin 30 + 200 cos 70
	× 206.8
D < 1/15/	Ry = 70 sin 25 - 150 cos 30 + 200 sin 70
P=1.29 kN	= 87. 6
2-25 Fx = 20 51230 = 1016 15°	R = 225 h 23°
2-26 Py = 80 sm3z = 42.4 N \ 1700	2-37 Rx = -40 sm 20-20 cos40 + 12 (39)
Px = 80 Cos 32 = 67.8N /20°	= +6.99
2-27 120 25 COS/2° = F	Ry=406520-205m40-5-239
F= 24.5 16 /300	0.77
	R = 12/5/54.36
2-28 Px = 400 Cos 10 100	R2-1 R = 65 N . R
P 400 41 106	2 0 50111 / 5
Py = 400 SIN 106 = 69.5 N 106	R= 8.54 kN /8 R= 102 N /8 15
2-29 Ry = \$ 150 + 5 152 = 60 M 7	R2-2 tand = 6 0 = 63.40
$R_{x} = \frac{12}{13} £52 = \frac{3}{5} £50 = 19 N \longrightarrow$	180-30-63.4=86.66
R = 62.6 N \$10	R = 6.7 Kys 869
	R2-3 Rx=-180:cos 4x - 300 cos 10
$\frac{2-30}{5} R_y = \frac{3}{5} \times 50 + \frac{1}{4.12} \times 100 = 54.316$	= - 422.7
Rx = \$x 50 +65 -25 - 4 100 = 17 15 -	Ry = 1805/n45 + 3005/n10 = + 179.4
R = 56.9 16 220°	R = 459 N 230
2-31 Rx = 15(204) - 160 Sm15 + 70 Cos 65	R2-4 Fx= 80 SIN 15 = 20.7 164
= 168.2	Fy = 80 cos 15 = 77.3 16 1
Ry = B(204) - 16 0 COS 15 - 70 SIN65	75 10 6 27 - 15 2 Ft/s -
= - 73.9	Ux = 19 cas 37 = 15.2 Ft/se
R= 184N \23.70	Uy = 19 sm37 = 11.4 Ft/sec 1
	Fx = 2 cos 48 = 1.34 15 ->
2-32 Rx= 90 sm75-70 Cos10-5x104	Fy = 2 sm 48 = 1.49 16 +
= -22	Fx = 920 cos 21.8 = 390 16
Ry= +80 +90 COS 75 +70 SINIO+12-104	Fy = 420 Sin 21.8 = 15616 +
= + 2/1.5	R2-5 Ux = 6 cos 55 = 3.44 m/s=
R = 2/3 15 84.10	Vy = 6 sin 55 = 4.91 m/s
2-33 Rx = 451120+2-3cos 30-55115	
= -0.524	5y = 18 cos 10 = 17.7 m 1
$R_y = 4\cos 20 - 3\sin 30 + 5\cos 15$	
= + 7.09	776) - 37 m/c2
R = 7.11 kn 85.3°	$a_y = 8/7(68) = 32 \text{ m/s} = 1$
	Px= 2/3-(65) = 36.1 N-
2-34 Rx = -1200cos20-700 s/m35	1
= -1530	Py = 3.605 (65) = 54.1 NP
Ry= 1200 SIn20 -700cos 35 - 800	R2-6 mitial Fx = 3 cos 6 = 2.98 KN 2400
= - 963.4	
R = 1810 16 57.87	Final Fx= 3 cos15 = 2.9 kN 1406
Personal and the second of the	

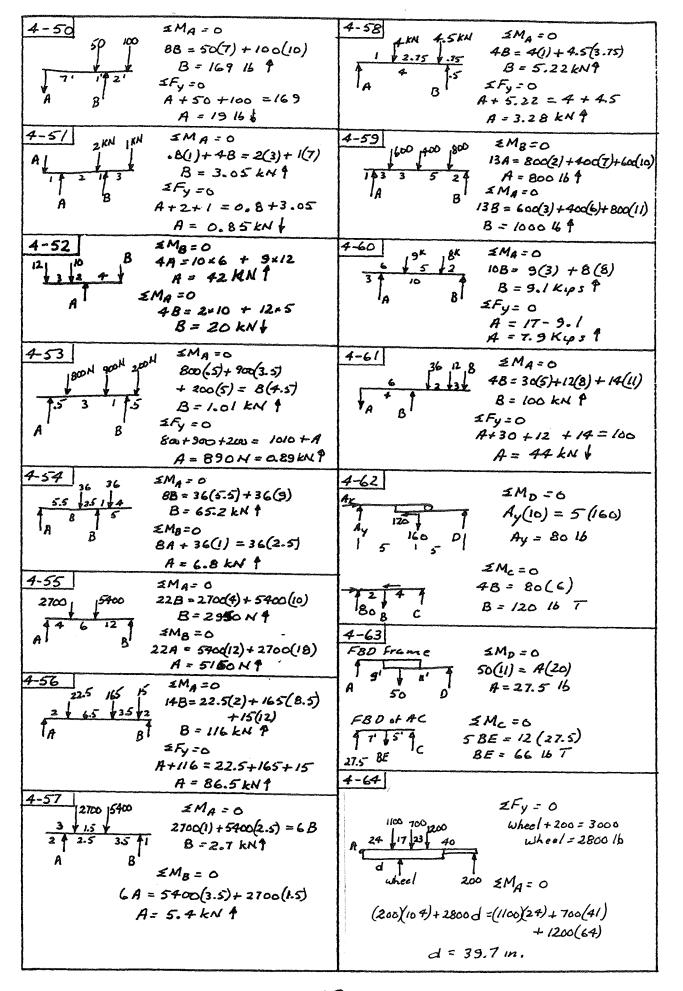
R2-1 Fx = -400 Cos 10+150 Cos 50+200 Sin 15	$\frac{3-17}{1}$ M ₄ = -4000(8) - 1500 (68)
= -245.7	= -134,000 16-in = 11.2 Kip-ft 2
$F_{y} = +300 + 400 \sin 10 + 150 \sin 50 - 200 \cos 15$ = $+291.2$	Mg = 4000 (38) - 1500 (22)
R = 381 N 49.8°	= 1/9,000 15-12
	= 9.92 Ky-Ft)
$R_{2}-8$ $R_{x}=120-\frac{12}{13}(26)-\frac{8}{17}(170)$	3-18 Moment about wheels = hitch load x 2
= +16	= 45x2
Ry = -90 -5/26) + 15 (170)	290 N.M
= +50	Moment about wheels = dolly load x 1.5
R = 52.5 N /n.3°	dolly load = 60N
3-1 M4 = -12x2 -9x1-24x2 +10x4	3-19 Top Arm MB = (30 cos 21.1)(34)
+30 ±3 - 16±3	= 952 16-In)
MA = 1 16-FE)	Bottom Arm Mc = (30 cos21.1)(32.77)
3-2 MA = -48+2 +36+1-20+4+15+3	= 917 b. ind greater moment in upper arm
$M_A = 95 \text{ N·m} 2$	3-20 MA = MB = 8(2) = 16 N-m 2
$M_{A} = + (60)(20) + (36)(32)$	$\frac{3-21}{M_{A}}M_{A}=1.294(.3)-2(.5)$
MA = 2350 16-12)	= 0.612 kN·m 2
$3-4$ $M_A = -5.66(.5) - 3(.5) - 5.2(.3) - 4(.4)$	3-22 MA = -10(4 cos10) + 8(6)
$M_A = 7.49 Nm 2$	= 8.6 16-FE*)
3-5 MA = -160(7) + 400(10) - 800 (2)	3-23 po 160 MA = -Am/2) - 60(4.2) = -4/2
Ma = 1280 B-FE)	$\frac{3-23}{60} = \frac{80}{412} = \frac{412}{60} = $
3-6 Ma = - 800 (5 Sin 38)	
= 2460 N·md	30N MA = 30x.376 = 11.3 N·m 2
3-7 MA= 850 (6351n30) = 26,800 16-12	3-25 MA = 10(8) -25(15)
3-8 Mc = 1800 × 2.3 = 4140 N·m)	= 2.80 15-192
MB = (1800)(1.7) = 3060 N·m3)	3-26 1500 500(4) = F x . 15
3-9 MA = 360(24) -150(18) = 594016-129	
3-10 Mp = -36(15)+15(8) = 42016-12	8 : A = 13 3 00 - 8 500 B = 13 300 4
3-11 MA = F = d 500 = PCOSZB(1.B) P = 3 15 N 750	
3-12 MA= 200(3)+360(6)-150(4)	3-27 M = 20 x 8 40 by 4, \$40 b
= 2160 Nm)	3-28
3-13 MA = 90(.1) -120(.24)	613 = F(4) F= 4.5 N 4.5N 4.5N
= 19.8 H.m2	2 - 2/3
3-14 MA = -60(3) + 240(1) + 200(0) + 80(0)	0.4(B)=F(.25) 12.8/
= 60 kN·m2	F=12.8kN 12.8
3-15 MA = (1200 cos20) 1- (1200 sin20) 9.5 + (600) 4.5	3-30 26.7 H 26.7 N
+(160)15 +(120)6 = 889 16-5£7	$4(2000) = F(300) \frac{1}{300}$ $F = 26.7 \text{ M}$
3-16 Ma = (500 sin/5)(2 cos 25)	
+(500 cos 15)(2 51m25)	3-31 4(2000)= 50 F 160H
= 643 N m 2	F=160 N 50 mm
643 = Fx .8 Cos25	John 1
F= 887 N	

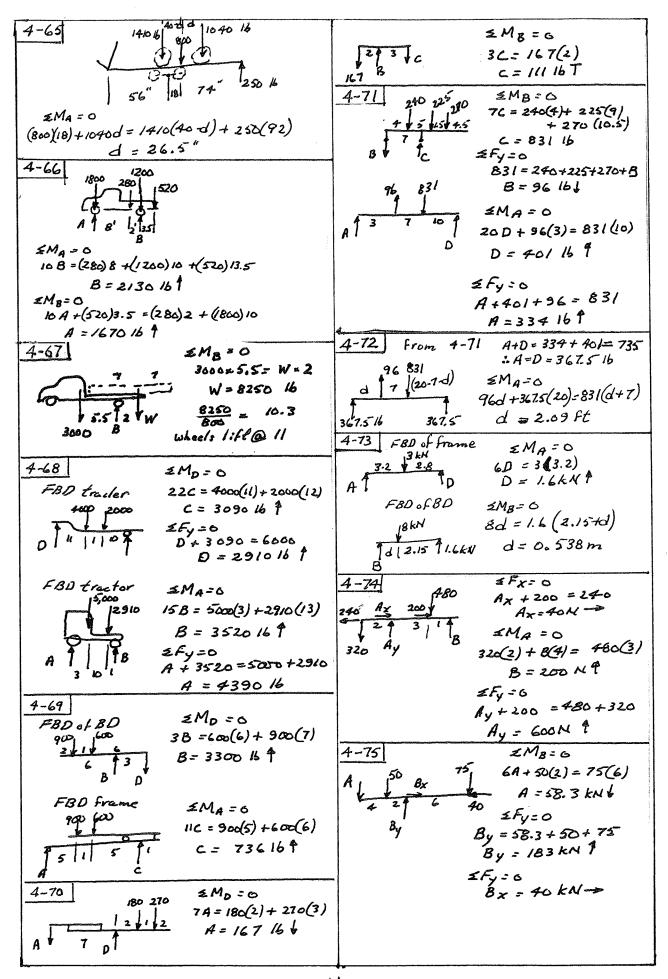


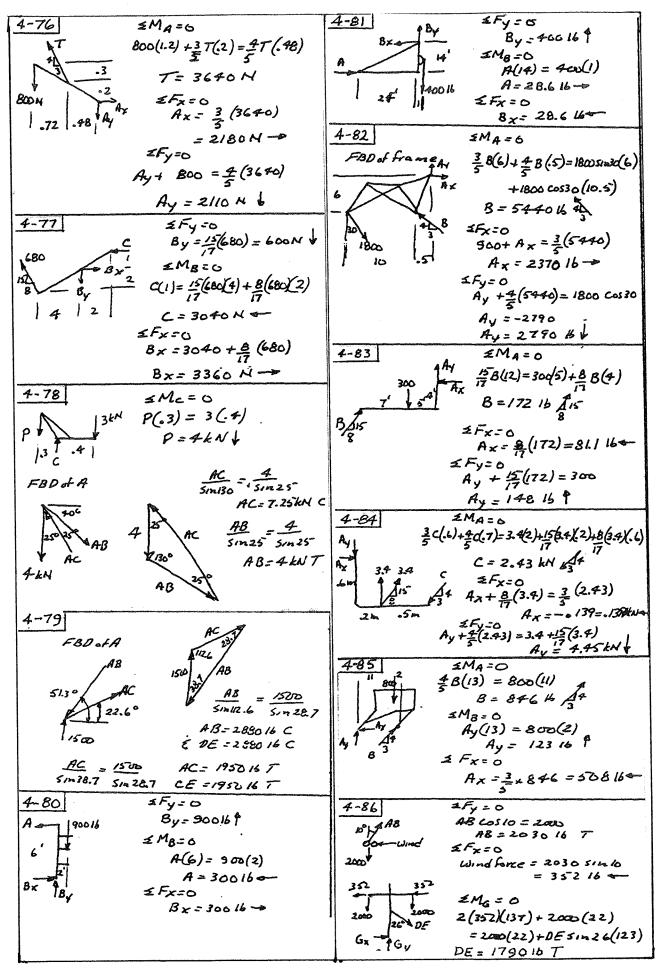


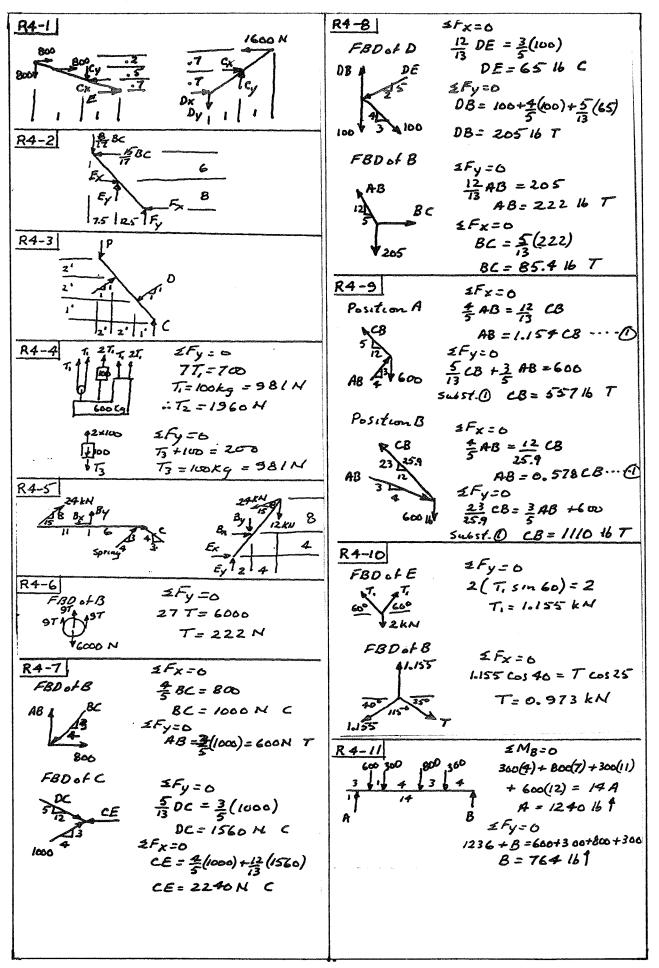


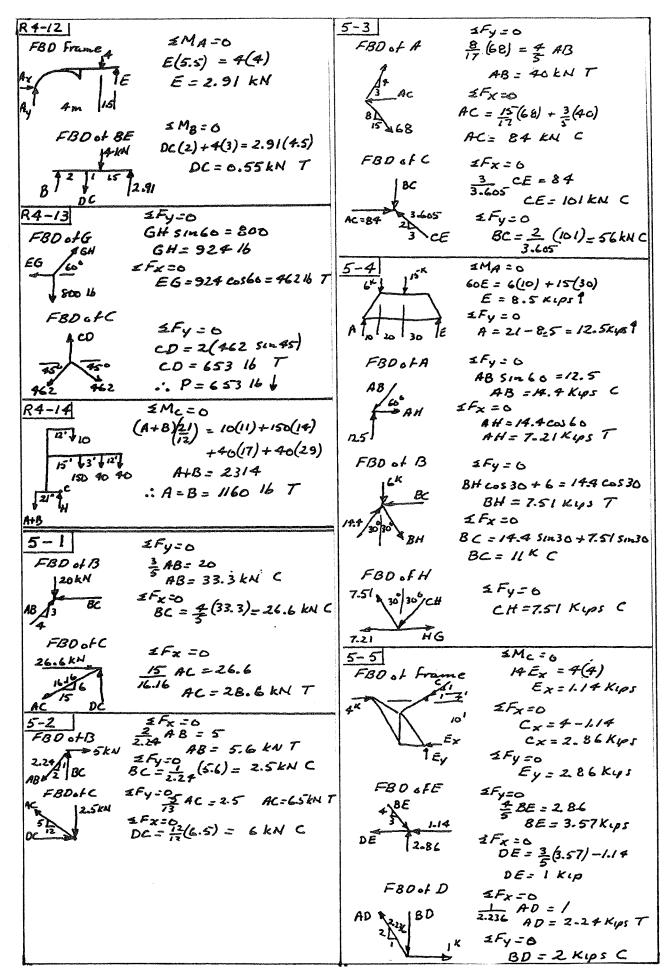




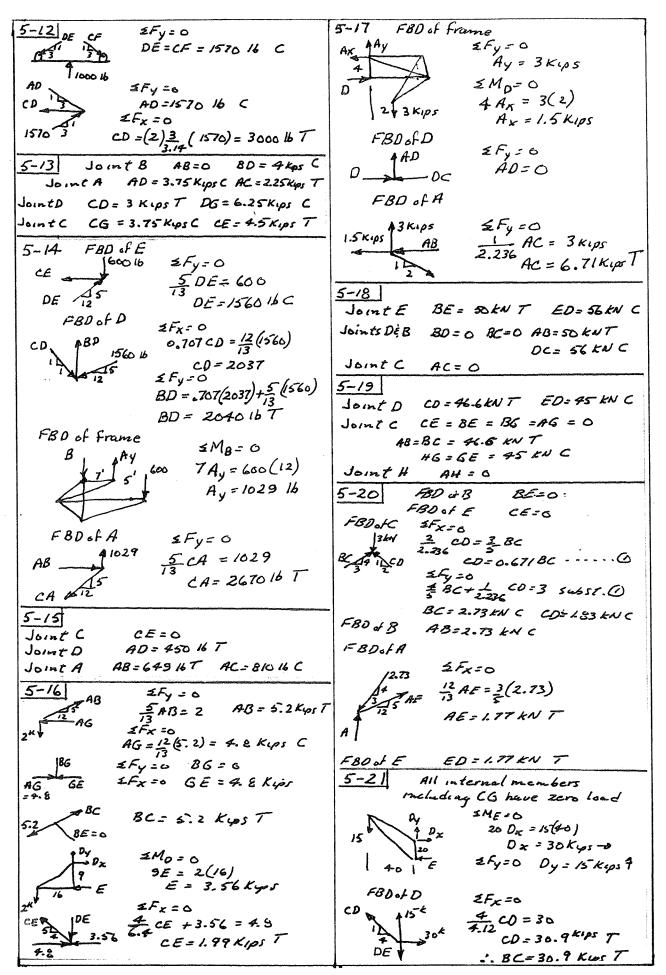


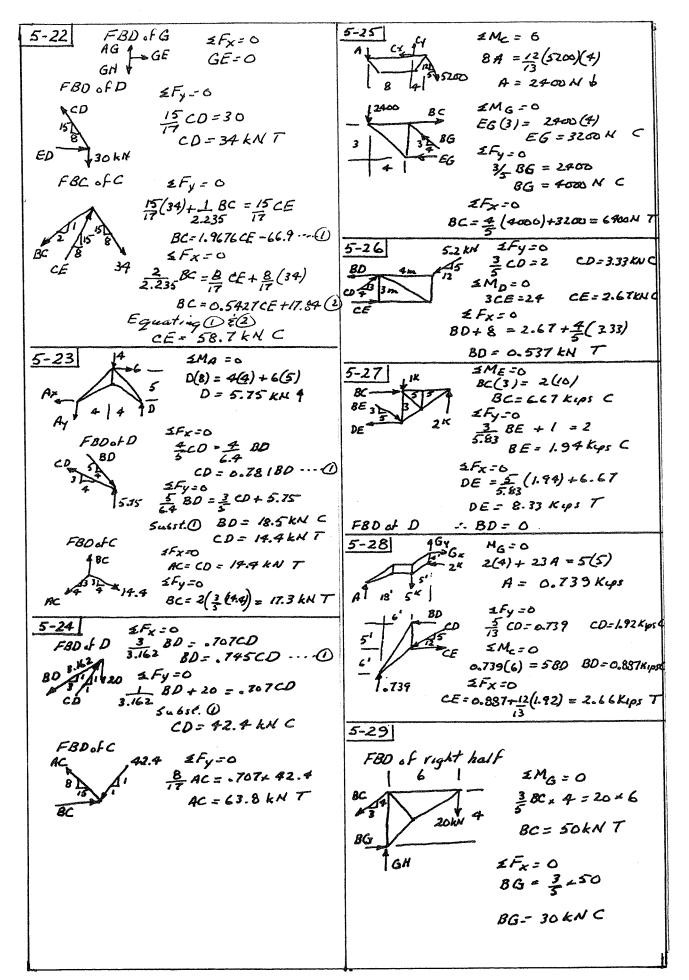


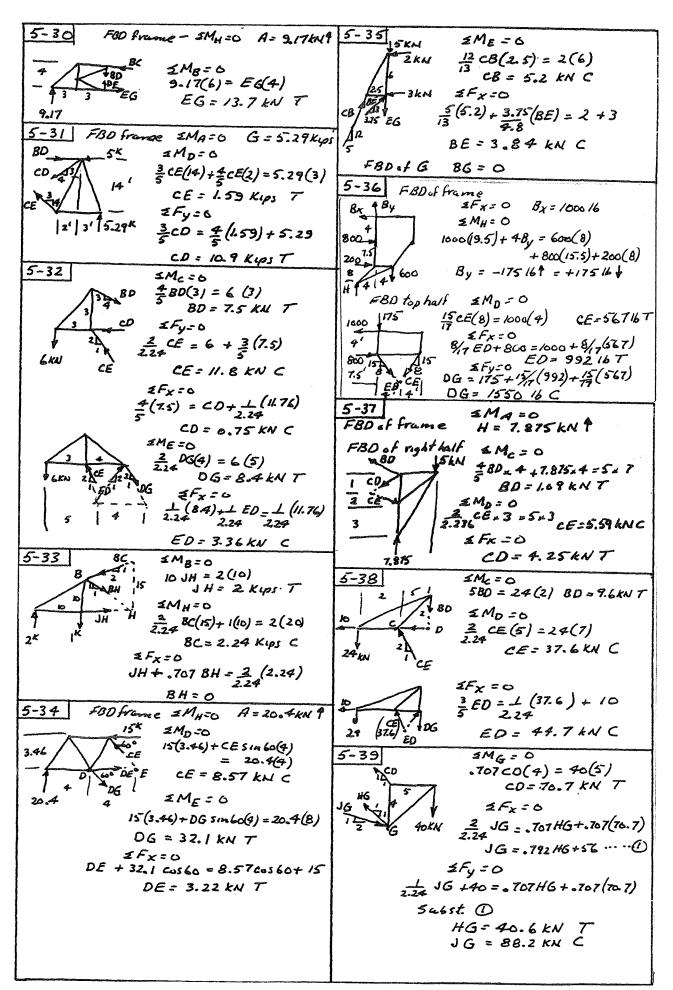


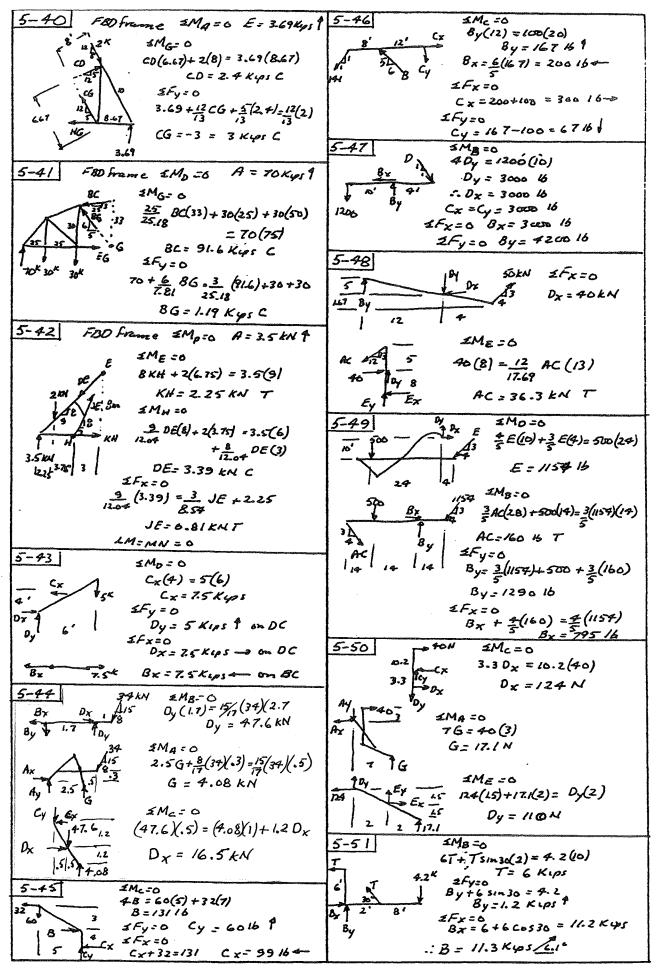


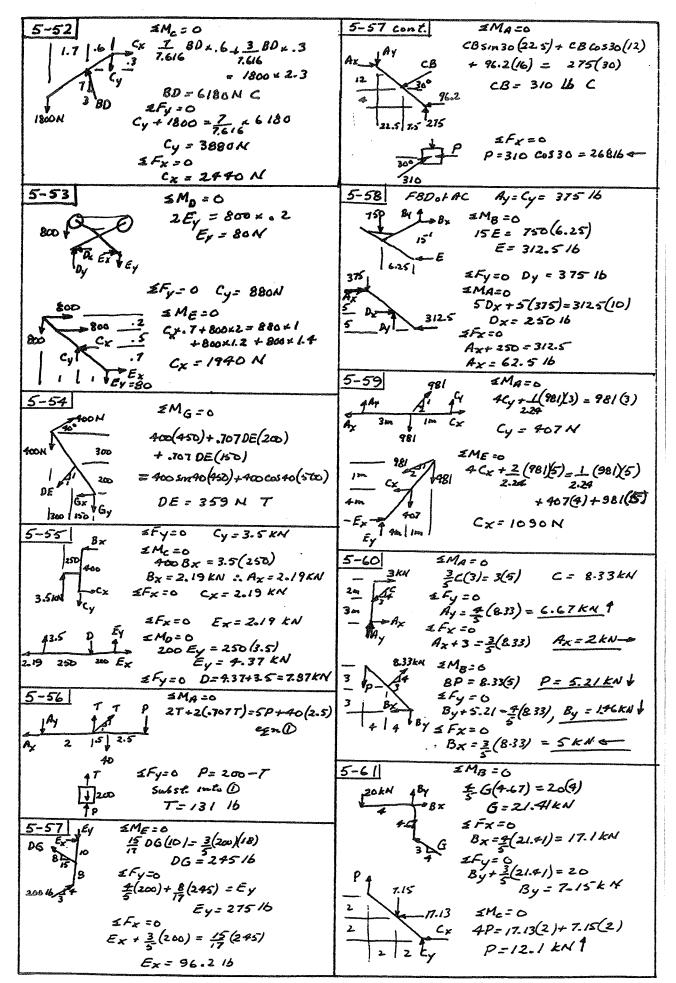
5-6 5-8 cont. IMA=0 1Fy = 0 $\frac{1}{3.16}D8(2) = 20(2.5)$ FBD Frame 5 BG + 5 (1090) =1400 FBO of B 2.5 m DB = 79 kN C BG = 418 16T 1400 BE 4Fy=0 2Fx =0 Ay +20 = 3 (79) $BE + \frac{2}{5.385} \left(418\right) = \frac{2}{5.385} \left(1096\right)$ Ay= 55 KNV 5.385 1090 BG 20th 2Fx=0 BE = 250 16 T Ax = 1.16(79) = 25 kN4 5-91 FBO at A Joint C BC= 3.33 Kyps T DC = 2.66 Kys C 2Fy=6 AB = 2.66 KysT BD = 2 Kips C Joint B 0.707 AB = 55 AD = 11.4 KIPS T ED = 13.3 KIPS C AB = 77.8 KN T Joint D AE = 3.33 KysT FE = 16 Kys C Joint E AC+25 = .707(77.8) Joint F AF = O AC= 30 KN C 1Fy =0 5-10 F80ofC $\frac{3}{5}(8C) + \frac{3}{5}CD = 8$ but 8C = CDZFX =0 &BC CD=BC = 6.67KN C 2 2 3.6 $\frac{3}{3.6}BC = 30$ IFX = 0 BC = 36 KN T $\frac{8}{8.54}8E + 2 = \frac{4}{5}(6.67)$ 20KM BE = 3.55 KN T IMB = 0 $\frac{2}{2.236}$ AE(2.5) = 20(8.5)FBD of frame AB = 3 (6.67) + 3 (3.55) AE = 76 KN C AB = 5.25 KN C 6.67 SFX=0 Bx=1 (76)= 34 KN AE ÅZ 854 AD = 4(667) AD=569KNT DE & Fy = 0 2Fy=0 By+20 = 2.236 (76) DE = 3(667)+3 (569 = 6 KN C By = 9E KN 6 FBD of frame FBO of D 2Fy=0 *長ED=20* ED=52kNC Ay = 3K.PS 1Fx:0 2ME-0 CD= 12(52) = 48 KN T 6Ax = 3(13) AX = 6.5 KIPS FBOotC FBO of A 1Fx=0 6.5 Kps 3K1ps CE = 67.8KNC .707CE = 48 3Fy=0 2Fy=0 AB= 6.5 SPUT C8=.707(67.8)= 48 KNT VAE FBD of C. FBOot B IFX TO ≤Fy=0 13Kips BE = 34 EN T 13 DC = 3 48 OC = 3.25 Kips C 2Fy=0 2Fx = 0 5-8 BC = 5 (3.25) 13 (650) = \$ ED FBDOFD BC = 1.25 Kips T ED= 750 16 C FBD of B co= 3(750)+5(650) 5FX= 0 1.25 Kips 4 E8 +1.25 = 6.5 6.5Kips CD = 700 15T FBD of C \$F, ' ± 0 EB= 6.56 Kips C 1 CE = 700 CE=15706C 2Fy=0 2Fy=0 CB= 2 (570) = 1400 16 T 80 = 3 (6.56) BD = 3.94 Kips T SMG=0 9 5.585 48(4) = 200(9)+60(3) AB= 1080 16 T

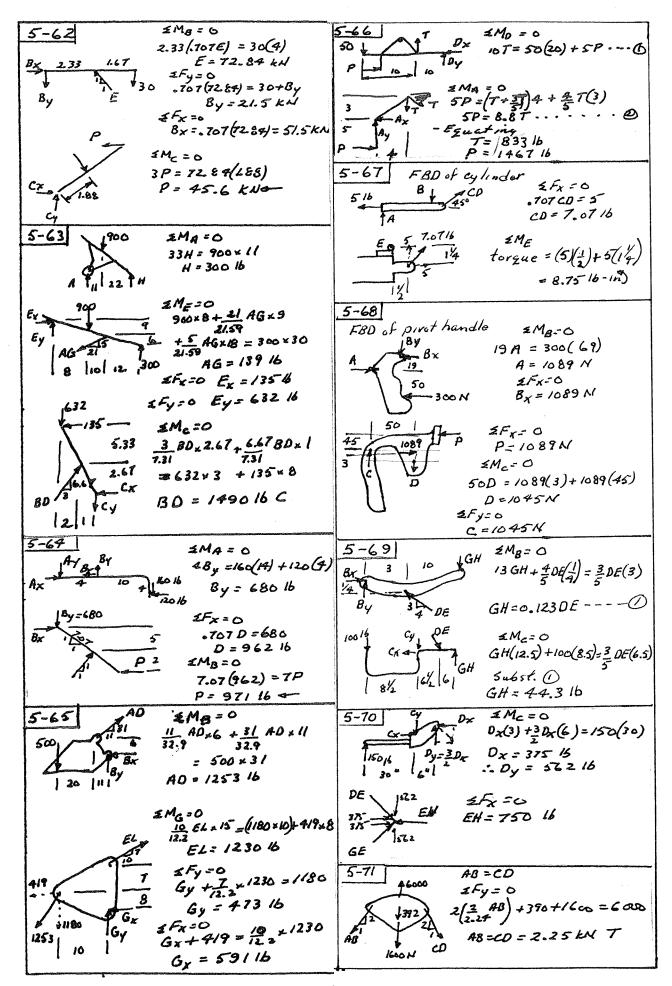












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