



MAK 304 MAKİNE TASARIMI II – ME 304 MACHINE DESIGN II

2016 Bahar Dönemi - 2016 Spring Semester

Ödev 2 – Homework 2

Given: March 2, 2016

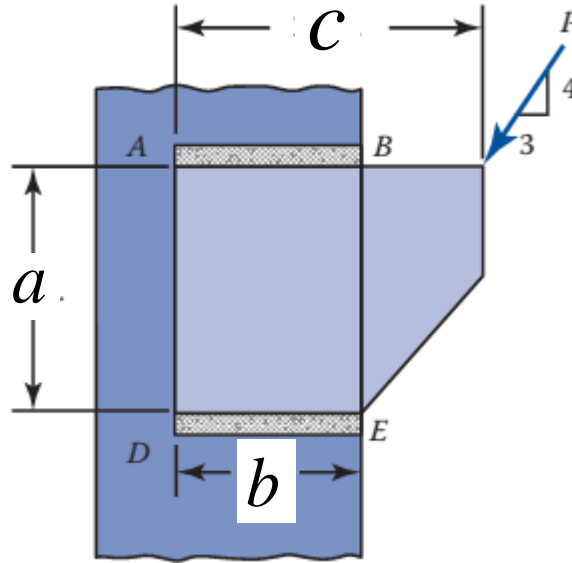
Name _____

Due: March 5, 2016

Student Number _____

Soru: Şekildeki yükleme durumu için iki adet kaynağın (AB ve DE kaynağı) kaynak dikiş boyunu (h) bulunuz. Emniyet gerilmesini $n = 3$ alınız. Akma gerilmesi, S_y Tabloda verilmiştir.

Calculate the size, h , of the two welds required to attach a plate to a frame as shown in Figure if the plate supports an inclined force of P . Use factor of safety, $n = 3$ and Yield stress S_y given in the Table.



MAK 304/ ME 304 Student number	P [kN]	a [mm]	b [mm]	c [mm]	S_y [MPa]
20072778	20	80	30	130	230
20133193	21	85	35	135	235
20155062	22	90	40	140	240
20133653	23	95	45	145	245
20144555	24	100	50	150	250
20113313	25	105	55	155	255
20144009	26	110	60	160	260
20132983	27	115	65	165	265
20112173	28	120	70	170	270
20145454	29	125	75	175	275
20147407	30	130	80	180	280
20143541	31	135	85	185	285
20143540	32	140	90	190	290
20142912	33	145	95	195	295
20132867	34	150	100	200	300
20143258	35	155	105	205	305
20143188	36	160	110	210	310
20135787	37	165	115	215	315
20143152	38	170	120	220	320
20142889	39	175	125	225	325
20145788	40	180	130	230	330
20143352	41	185	135	235	335
20143766	42	190	140	240	340
20143542	43	195	145	245	345
20145748	44	200	150	250	350
20145817	45	205	155	255	355
20134519	46	210	160	260	360
20122456	47	215	165	265	365
20134469	48	220	170	270	370
20133664	49	225	175	275	375
20145325	50	230	180	280	380
20146534	51	235	185	285	385
20133652	52	240	190	290	390
20133601	53	245	195	295	400
20143362	54	250	200	300	405
20103163	55	255	205	305	410
20118313	56	260	210	310	415
emhemed slil	57	265	215	315	420
Emhemad tamimi	58	270	220	320	425