実験結果 整理表 ~力計測~

実験日

2015-

実験環境の設定

送風機回転数	[rpm]	1400
ピトー管差圧	[Pa]	858.0
試験時の 平均温度	[°]	33.665853659

試験時の平均Re数

164224.0543

較正係数

F _x	[N/V]	10
Fγ	[N/V]	10
M ₇	[Nm/V]	1

測定範囲(定格負荷の何%か)

F _x	[%]	0.004~1.47
F_{Y}	[%]	0.086~9.610
M_7	[%]	0.0025~1.92

実験結果							
迎角	風洞内温度	風洞静圧	天	秤出力(無風問	寺)	天	秤出力(通風印
α [deg]	t [℃]	P [hPa]	F _x [V]	F _y [V]	M _z [V]	F _x [V]	F _y [V]
-20	33.3	1003.55	-0.53935851	-0.99798082	0.245672082	-0.48694152	-1.8073639
-19	33.4	1003.52	-0.51461179	-1.00344935	0.247628397	-0.47026681	-1.8122711
-18	33.5	1003.52	-0.49332887	-1.00882732	0.248188067	-0.455423	-1.81902777
-17	33.6	1003.55	-0.4719788	-1.01896535	0.249249427	-0.44093018	-1.81882024
-16	33.7	1003.54	-0.45217286	-1.02133081	0.248652032	-0.42694395	-1.82439267
-15	33.8	1003.55	-0.42864681	-1.02884701	0.25119835	-0.41625976	-1.8322327
-14	33.8	1003.57	-0.4075103	-1.03696697	0.25024742	-0.40788879	-1.85849
-13	33.9	1003.57	-0.39071046	-1.03905112	0.248831909	-0.41649474	-1.90858156
-12	34.0	1003.59	-0.36630552	-1.04410192	0.251088501	-0.51324765	-2.00510865
-11	34.0	1003.58	-0.34270933	-1.0485198	0.251123642	-0.47742312	-1.96326297
-10	34.1	1003.58	-0.3243988	-1.0520172	0.250588208	-0.43553767	-1.9092987
-9	34.2	1003.57	-0.30235291	-1.05457381	0.251145562	-0.39593809	-1.85375061
-8	34.2	1003.57	-0.27944947	-1.05915138	0.252036666	-0.3604004	-1.79072568
-7	34.3	1003.60	-0.25942386	-1.06107507	0.251065289	-0.32130426	-1.7250275
-6	0.4	1003.60	-0.22526546	-1.06478622	0.251589698	-0.28288576	-1.65030212
-5	34.5	1003.60	-0.21530155	-1.06494907	0.252042769	-0.24803771	-1.58088984
-4	34.6	1003.61	-0.1939758	-1.06887706	0.251741039	-0.2150452	-1.5086334
-3	34.6	1003.60	-0.17249446	-1.07005378	0.253007932	-0.17933961	-1.40848695
-2	34.7	1003.61	-0.14961552	-1.0698738	0.251798192	-0.14780573	-1.29679564
-1	34.8	1003.61	-0.12647096	-1.07053657	0.251886164	-0.12018736	-1.18657835
0	34.9	1003.63	-0.10690919	-1.07090851	0.251067685	-0.09282529	-1.07947392
1	33.8	1003.66	-0.0861847	-1.07033819	0.251235098	-0.06612549	-0.95911866
2	34.0	1003.67	-0.06594538	-1.07034327	0.250707057	-0.04711613	-0.85138242
3	34. 1	1003.68	-0.04227594	-1.06888895	0.250593481	-0.03176577	-0.73956297
4	34.3	1003.70	-0.02071532	-1.06762049	0.250673265	-0.01565244	-0.6401184
5	34.4	1003.68	0.01788027	-1.06519288	0.254365801	-0.00094604	-0.55352784
6	34.5	1003.66	0.02486262	-1.06662148	0.254082895	0.01566165	-0.47508239
7	34.6	1003.66	0.04946595	-1.0608915	0.255458585	0.0225311	-0.40312193
8	34.7	1003.60	0.06672364	-1.05891829	0.252316667	0.02513123	-0.33307492
9	34.8	1003.62	0.08992619	-1.05519822	0.252250138	0.03217773	-0.26572877
10	34.9	1003.61	0.11119688	-1.05205276	0.252486022	0.03901678	-0.20337223
11	35.0	1003.60	0.13262025	-1.04963209	2.52E-01	0.04570009	-0.1417542
12	35.1	1003.61	0.15365914	-1.04521632	0.252920647	0.0557495	-0.09122314
13	35.2	1003.60	0.1756409	-1.04057143	0.252802336	0.19821166	-0.20963741
14	35.2	1003.60	0.19810178	-1.03580586	0.251757441	0.23872681	-0.23036811
15	35.4	1003.58	0.21749277	-1.03038125	0.251591917	0.26774906	-0.22839359
16	35.4	1003.60	0.23849489	-1.0246872	0.252381278	0.29912412	-0.22641294

17	35.5	1003.60	0.25896306	-1.01901068	0.250564283	0.32502749	-0.22105407
18	35.6	1003.58	0.27946162	-1.01386189	0.251006411	0.35502009	-0.21071168
19	35.7	1003.59	0.30245058	-1.00566996	0.2517048	0.37739256	-0.20954585
20	35.8	1003.59	0.3230652	-0.99990045	0.251948626	0.40680543	-0.19344173

静圧平均Pa1003.60024空気密度ρ1.13960848粘性係数μ1.88494094風速V38.8043851

実験結果

	大 村大小山大						ピッチング
寺)	迎角	天精	怦出力(正 呀	₹)	揚力	抗力	モーメント
M _z [V]	α [deg]	F _x [N]	F _y [N]	M _z [Nm]	L [N]	D [N]	M _{C/4} [Nm]
0.33863522	-20	0.5241699	-8.0938309	0.09296314	-7.42643646	3.260811774	0.048678902
0.33876954	-19	0.4434498	-8.0882175	0.09114114	-7.50318678	3.052556074	0.050402664
0.34023744	-18	0.3790587	-8.1020045	0.09204937	-7.5883286	2.864163329	0.049735706
0.33940732	-17	0.3104862	-7.9985489	0.09015789	-7.55827299	2.635468813	0.049816713
0.34119564	-16	0.2522891	-8.0306186	0.09254361	-7.64998576	2.456054327	0.047992218
0.34339301	-15	0.1238705	-8.0338569	0.09219466	-7.72804984	2.198964892	0.048397836
0.35015562	-14	-0.0037849	-8.2152303	0.0999082	-7.97211847	1.983771607	0.04385833
0.37127987	-13	-0.2578428	-8.6953045	0.12244796	-8.53044637	1.704783598	0.029719867
0.44267885	-12	-1.4694213	-9.6100674	0.19159035	-9.70557419	0.560734433	-0.02341417
0.43209837	-11	-1.3471379	-9.1474317	0.18097473	-9.23641362	0.423025065	-0.02089467
0.41867064	-10	-1.1113887	-8.572815	0.16808243	-8.63556532	0.394149497	-0.01805817
0.40299075	-9	-0.9358518	-7.991768	0.15184519	-8.03977556	0.325858042	-0.01198925
0.386911	-8	-0.8095093	-7.3157431	0.13487433	-7.35720866	0.216523435	-0.00684883
0.37128911	-7	-0.618804	-6.6395243	0.12022382	-6.66544754	0.194962939	-0.00403215
0.35355837	-6	-0.576203	-5.8551591	0.10196867	-5.88331349	0.038984278	0.000496611
0.33958132	-5	-0.3273616	-5.1594077	0.08753855	-5.16830608	0.123556123	0.002751084
0.32197268	-4	-0.210694	-4.3975634	0.07023164	-4.40154845	0.096577757	0.006725719
0.30511172	-3	-0.0684515	-3.3843318	0.05210379	-3.38327612	0.108764549	0.007122018
0.2887451	-2	0.0180979	-2.2692185	0.03694691	-2.2672045	0.097281457	0.002764415
0.2739532	-1	0.062836	-1.1604178	0.02206704	-1.15914442	0.083078513	-0.00175972
0.25363769	0	0.140839	-0.0856541	0.00257	-0.08565408	0.140839	-0.00107106
0.24696352	1	0.2005921	1.11219527	-0.0042716	1.108525062	0.219972033	-0.01519184
0.2317657	2	0.1882925	2.18960854	-0.0189414	2.181703376	0.264594033	-0.01937679
0.21422117	3	0.1051017	3. 29325979	-0.0363723	3. 283245894	0.277313562	-0.02125974
0.19686276	4	0.0506288	4. 27502093	-0.0538105	4.261075507	0.348715856	-0.02100236
0.18089599	5	-0.1882631	5.11665037	-0.0734698	5.113588181	0.258398761	-0.01607157
0.16666877	6	-0.0920097	5.91539094	-0.0874141	5.892603442	0.526821063	-0.01610522
0.15147402	7	-0.2693485	6.57769571	-0.1039846	6.561491888	0.53427864	-0.01112511
0.1325073	8	-0.4159241	7. 25843374	-0.1198094	7. 245680609	0.598302376	-0.00721322
0.11731872	9	-0.5774846	7.89469448	-0.1349314	7.887836185	0.664627501	-0.00322574
0.1031769	10	-0.721801	8.48680531	-0.1493091	8.483211096	0.762883055	0.000790029
0.08810126	11	-0.8692016	9.07877888	-0.1634873	9.077827625	0.879080759	0.004608659
0.07720949	12	-0.9790964	9.53993179	-0.1757112	9.53502698	1.025762554	0.008762351
0.16121833	13	0.2257076	8.30934021	-0.091584	8.045599196	2.08911757	-0.05382945
0.17364196	14	0.4062503	8.05437752	-0.0781155	7.716847243	2.342713207	-0.06283613
0.174588	15	0.5025629	8.01987662	-0.0770039	7.616533101	2.561135293	-0.06334392
0.1779724	16	0.6062923	7. 98274261	-0.0744089	7. 506387893	2.78314763	-0.06528912

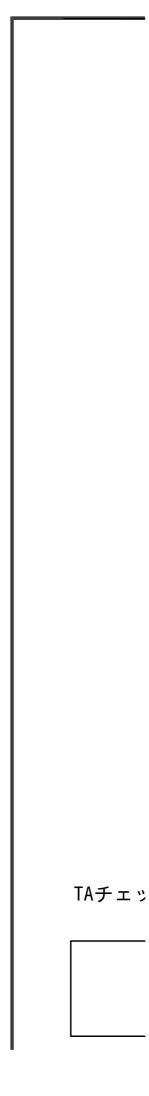
0.	17832336	
0.	18022766 18012086	
0.	18012086	
0.	18121036	

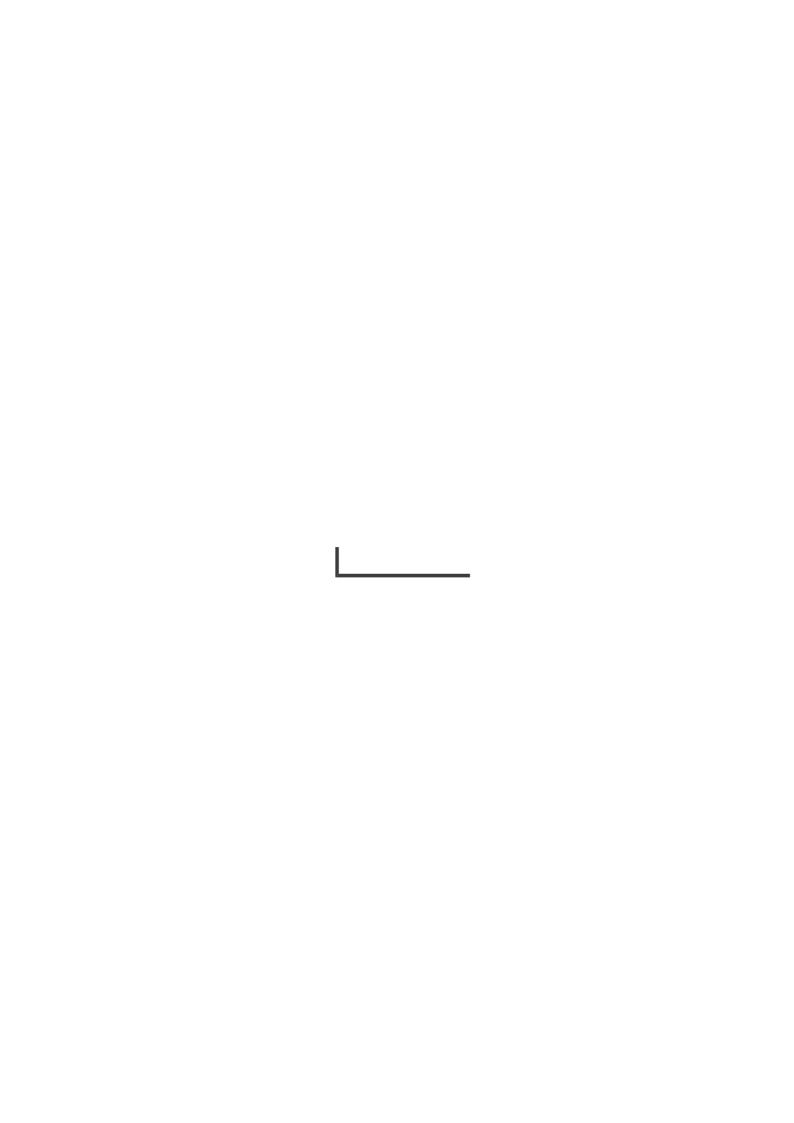
17	0.6606443	7. 97956609	-0.0722409	7.437743302	2.964776627	-0.06740148
18	0.7555847	8.03150214	-0.0707788	7.404923933	3.200474404	-0.06977254
19	0.7494198	7. 96124114	-0.0715839	7. 283514161	3.300516927	-0.06773778
20	0.8374023	8.06458718	-0.0707383	7. 291824608	3.545152025	-0.07039201

揚力係数	抗力係数	モーメント 係数	中立点
C _L	$C_{_{D}}$	C _{M c/4}	N _o
-0.58883332		0.003859692	Ů
-0.59491876	0.242033543		0.006527828
-0.60166956	0.227096106	0.003943485	-0.01063697
-0.59928648	0.20896319	0.003949908	-0.02827714
-0.60655828	0.194737628	0.003805246	-0.00835731
-0.61274789	0.174353313	0.003837407	-0.01283287
-0.6320998	0.157290893	0.003477475	-0.02327773
-0.67636895	0.135170265	0.002356453	-0.03880832
-0.76954344	0.044459967	-0.00185648	-0.07169531
-0.73234426	0.033541155	-0.00165671	-0.00500557
-0.68470371	0.031251645	-0.00143181	-0.00744204
-0.63746425	0.025836897	-0.00095061	-0.00876855
-0.58334433	0.017167886	-0.00054304	-0.00578981
-0.52849541	0.01545838	-0.0003197	-0.00498369
-0.46648093	0.003091017	3.9376E-005	-0.00453079
-0.40978885	0.009796618	0.00021813	-0.00420384
-0.34899354	0.007657536	0.000533274	-0.00244866
-0.26825594	0.008623812	0.000564696	0.001855982
-0.17976395	0.007713331	0.000219187	0.003993353
-0.09190718	0.006587197	-0.00013953	0.001758141
-0.00679141	0.011166957	-8.492E-005	0.005923312
0.087893635	0.017441321	-0.00120454	0.008073599
0.172984668	0.020979346	-0.00153636	0.002790195
0.260324665	0.021987863	-0.00168566	0.000781759
0.337855612	0.027649266	-0.00166525	-0.00283453
0.405450329	0.020488131	-0.0012743	-0.00300157
0.467217523	0.041771016	-0.00127696	-0.00341629
0.520252893	0.042362318	-0.0008821	-0.00657168
0.574501403	0.047438684	-0.00057193	-0.00595575
0.625417156		-0.00025576	-0.00646712
0.672623725		6.2640E-005	-0.00658357
0.719770163			-0.00757958
0.756020956	0.081331494	0.000694756	-0.05661354
0.637925997	0.165643649	-0.00426807	-0.03937921
0.611859646	0.185750946	-0.0049822	-0.02217485
0.603905857	0.203069373	-0.00502246	-0.01165542
0.595172574	0.220672468	-0.0051767	-0.02269458

0.5	89729826	0.235073615	-0.00534418	-0.0441873
0.5	87127617	0.253761812	-0.00553218	-0.0021805
0.5	77501181	0.261694064	-0.00537085	-0.00547725
0.5	78160106	0.28109089	-0.0055813	

	15082 ns (·s) iei (v)	1206				ezen za	8.00E%2) (%)	*****	M-17.1	~任力	明定~ 数3年37年 3年表示 6月6年 - 名表 マ	1000	. 00 100 100-001				990		
	(c)	31.8807140		NMIN.	11765000						RE Y								
	and and a	ALI Pri				X 10	8543 8 E (F-F,1 (H)						*	YEROLU.	m cee	00		
	-20 25.6 -20 25.6	7 (MA) 1881.00	EAN-	E ALL B. GLIDGE	E 41 ITTOO	6.300000	EAN .	Ent.	(E 10), 1 -0.007.0700	-0.1888301	Enh/ En	0.4 EA	2.0 Ent. 0	Enb.0	EAR.W EA	US EAR.	Ent.()	E10.4 E10 -0.0000 -0.0	0.000 0.000 0.000
	-16 35.9 -16 33.1	189,60	8.000784 8.000724	8. 61839-04 8. 53-67080	8.399800 8.2879800	6.10000 6.00000	A STEERS	4.00000 4.100000	-0.100000 -0.10000	4.200000 4.200000	4.200 4. 4.200 4.	2000 -0.0 2000 -0.0	00012 -4 CT03	-8.6900 -	4.6330 -4.6 4.6380 -4.6	1031 -4.03 1139 -4.630	F -8.16730 D -8.68190	4.000 4.0	90 4.00 90 4.00
	-16 30.7 -13 30.4	186.62	0.000ATC1 0.000XXX	8. 0031680 8. 0031680	8.2368817 8.3871800	8.0003001 8.1704003	8.000780 6.12180016	4.108838 4.048838	-8.196308 -8.621660	-0.21 MINES	4.30% 4. 4.00% 8.0	078 -0.7 076 -0.7	17940 4. DO	-0.7800 -1.880	6.6787 -6.6 1.6880 -1.1	100 -0.700 100 -0.005	D -0.00000	-0.71000 -0.0 -0.11000 -0.2	TER -0.108
	-16 32.4 -6 33.7	186.62	6.0007783 6.0007783	8. 018/01 8. 048/01	8.7807000 8.1187000	6.0078214 -6.0138501	-6. If BEEDO	4.139(3)4	-6.000 (RG) -6.101 (RG)	4. HBDCH	-0.0025 0.0 -0.0086 0.0	G10 -2.6 G10 -2.6	MADE -1 CHA MEDING -2 1778	-2.8866 - -1.7856 -	1.3885 -1.4 1.3886 -6.	1676 -0.540 1696 -0.761	e -0.1000	4.000 4.0	160 - 6.1000 160 - 6.1000
	4 33.0			8.0009CT3	-0.13072000 -0.13072000	4.30(88)	-6.1829880 -6.7829880	4.2012721	-0.201040 -0.201040	4.179790	-0.1050° 0.0	71340 -1.1	17040 -1.380	-1.1540	-0.9100 -0.1	HCD -8.690	C -0.1001	4.084 4.2	DE -0.186
	8 33.4 2 31.0	187.00	6.00CH00 6.00H000	-0.163000 -0.817000	4.16360 4.753600	-6.900797 -6.9007912	-6. W317907	4.40EDH 4.33EDH	-6. 200046 -6. 421662	4.30796	4.200 4 4.200 6	428 A.1	DESCRIPTION - 8. 1 MICH.	-8.080C - -8.30D	6.3230 -6.1 6.3230 -6.1	180 -0.400	0 -0.1021	4.300 4.1	180 -6.1815 168 -6.1253
	6 35.0 6 35.1	187.10	6.000T/DKT	-1.10:00 -1.6000	4.1790000 4.1100000	-6. MHODRS -1. (DAT 3H)	-6.000307 -6.7610000	4.00303	-0. COORDE -0. GOCCTO	4. 001200	4.3860 -4. 4.3865 -4.	1000 E.F	8.8973 8.13921 198736 8.30800	-0.1250 - 0.00EHZ	6.381% -6.3 6.8690 -6.1	HCD -8.258	-0.10713 01 -0.12963	-0.21900 -0.0 -0.17900 -0.0	100 -0.00C 100 -0.0CN
	8 35.1 10 35.2	107.16	4.0000007 4.0000073	-1.89088 -2.508088	-1, 680-0000 -1, 687,7000	-1. WEST 627 -1. TRESS 672	-6.750000 -6.650000	4.78001	-0.16868 -0.168756	4. GETTED	4.3004 -4. 4.2707 8.0	MIN 8.	THE STREET	8. 194CH 8 8. 3790H 8	L SEESE - S. C.	1807 -8.116 1707 -8.650	0 -0.00XT1	-0.14702 -0.0 -0.10005 -0.0	1716 -0.00317 1526 -0.000
	12 31.2 H 31.2	180,00	4.0030710 0.0000000	-0.007077 -0.007077	4.000000 4.000000	-1.301636 -6.078663	-6. MINESTED -6. 631980	4.70000	-6. 903900 -6. T30868	4.00007	4.000 A.	010 E.E	120000 0.15600 17200 0.41210	8.000 0 8.20000 0	L 234-007 (E. 10 L 138140 (-0. 0	100 - 1.000 100 - 1.000	B 8. 01 1623 00 -0. 0673	4.2001 -6.1	1723 -0.0000 HIED -0.1980
	N 31.2	186,62	6.00FCH3	-0.64E381	4. CORDECTS 4. CORDECTS	4.00001	-6. M07680	4.0380	-8. 600EXE	-0. MET (DO	4.600 4.	10030 0.	ET006 0.71775	8.3M850 0	LINERO B.	1271 -0.075 1280 -0.036	D -8.86760 D -8.9680	4.1803 4.2	11H -0.1H46
				4.649621	4.4304007	4.00010	-E 1712HBH	4.00000	-4.608800	-0.4810GH	4.6867-4.	E100	CT3068 6.7506	8.4030(4	LIBITIO(B. LI	CHE R. HETT	E] -8.83160	-8.14234[-8.3	шк)-клож
No.	750	\$8 7 000	Entr	Ente	Eral	E104	EAN CAN	F-F,) (Fe)	E+82	falu	mear I me	da En	a. Teras	Ent. o	FREGAZE Esta Es	ME C F,-P, 1	(%)	ESSA TEN	or I desar
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No.	N 33.1	189,42	4.XBCIES 4.XBCIES	25 00 MB 25 00 MB M 1, MENED	215, SMEZON 177, 6866775 298, MCHO	23. 8967975 23. 8967975 136. 9989975	5. H2305 6. SHBD 91, 36900	-11.00903	-011.1700 -011.1700 -01.1370	-101.1007 -108.817N	-214.10 -30 -296.313 -12 -41.8866.24	L 80 -00 L 80 -00 MTM -270	18708 - SEL 76 1880 - SEL 82 MINUTE - 2015 21	-547.584 -	-271.30 -01 001.30 -01 1806.70 -01	48 -12.6 58 -12.5	0 -00.473 0 -00.475 0 -00.771	-00, 97 -00 -00, 99 -00 -07, 96 -05	10 -01.10 11 -01.10 38 -01.10
No.	8 32.4 4 33.7	186, 62	4.10166 4.330235	GT MINES	TARREST TARREST	-16 3KFES	42.120 -13.86265	-90.2000 -90.2000	-0.0000 -0.3000	-0.1007 -0.1107	42,685 6L 47,360 6L	1000 - OUI 1020 - DOB.	CROSS - HEEL IS SERVED - HEEL IS	-187.61	49. 10 -30 48. 36 -30	60 -06.0	0 -02.YIE 8 -09.YI	-97.63 -011 -08.401 -011	10 -01.41 80 -01.45
No.	4 33.0	180,00	4.16363 4.16363	6.471075	-181.797000 -181.797000	-10.1000 -10.30303	-13.1960 -13.16615	-166, 707 6176 -186, 228-6876	-111.0400 -100.0070 -100.0070	-104 DESIGN	-01,101 GE. -00,0007 SS.	1000 -100. 10130 -000.	000075 -1361, 30 000075 -1061, 30	-1968, SSI - -865, 3404 -	401. 204 -01 480. 907 -000	10 -02.4	E -00.300	-00.01 -00 -00.01 -00	88 -128.817 76 -188.817
No.	8 33.4 2 31.0	187.10	3.32H/5 1.80(3)	-017, 1740 -013, Walt 3	-695.300 -660.100000	-013,000 000 -027,0000	-384, 3816276 -384, 8886276	-20,1011 -00,000	-31.199 -31.600	-09.196905 -098.21690	-115.903 -01 -115.600 22.	118 B.	1790 - 134.88	-656.634 - -276.227	483, 307 -303 674, 469 -386	90 -98.6 80 -98.6	D -056.654	-013.8 -186 -011.1 -115	EB -161.8 EB -81.965
No.	6 25.1	187.00	6.160521 -6.40681	471.1067 -1136.267	-54.3907 -69.298-0	-968, 6006175 -768, 618385	-6/0. 6767005 -6/0. (367)	-86. H16721 -85. K267/21	-017, 12760 -017, 12760	-215, 6119 CS	-198,607 -18 -013,607 -10	178 370 68	3808 277 300	-165.600 - 30.12530 -	191.380 -196 62.890 -116	196 -194.10 170 -128.0	07 -136.867 8 -96.7600	-91.32 -93. -12.30 -03.	178 -6L O 108 -2L 1714
No.	8 N.1 0 N.1	1007,00	-1.10cm -1.50m -1.50m	-0 804, 2064 -0 804, 2064 -0266, 7686	-1111.3600 -1183.46070	-89. 1004 -916. 60703	-01.000 -07.000	-00, 02101 -00, 02101 -01, 03001	-01.39 (c) -01.39 (c) -01.38 (c)	-38.600 -38.600 -28.60075	-216, 000 -1, -201, 800 3, 6 -201, 800 -16	030 7 075 68 160 68	N MY2 51 25 BMX2 58 612 BMX2 58 612	264, 4000 227, 7000	17.860 T. I 18.80 T. I		64 -06 1665 8 8 267186	-00,000 -0. -03,000 -0.	38 -6.175 36 -6.63 43 -6.28
No.	16 31.2 16 31.2	187.10	6.3601 6.1631	-018. TGB1 -076. 003	-67. HIGG	-56. 000 -04.307371	-673.8886% -638.0040	-90, 17011 -00, 36041	-015. EDER -015. EDER	-987, TERROR	-606, RT -00 -660, TO -00	1.10 70. 1.40 70.	HIZTON 458. 168 1001CD 455. GOV	213.400 E	0.000X -6.0 26.7900 28.	171.T	27 -72, 6761 EX -63, 2966	-150, 600 -160 -150, 701 -161	10 -31.88 11 -31.48
No.	20 21.3	186,62	8.40725 8.4748	-687. 67/03 A 680/033	-65. (680) -65. (680)	-94.00001 -91.00001	-09.10145 -09.1000	-961, 162703 -973, 46621	-6K. KON -6M. 660	-100.1110 -110.1110	-116.439 -30 -116.439 -30	LESS T	1750 ES X01 1700 177 800 1800 A MAN	365. 607 C	TEXES SE	196 2.01G	0 -0. 611 6 -23.2876	-016.1 -016 -021.790 -011	68 -268.10°
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九州工業大学 工学部 機械知能工学科

平成27年度 機械工学実験Ⅱ

三次元翼空力実験 · 報告書

実験日: (力試験) 平成 年 月 日

(圧力試験)平成 年 月 [

提出日:平成 年 月 日

グループ番号:

報告書作成者

学籍番号:

氏名:

-目次-

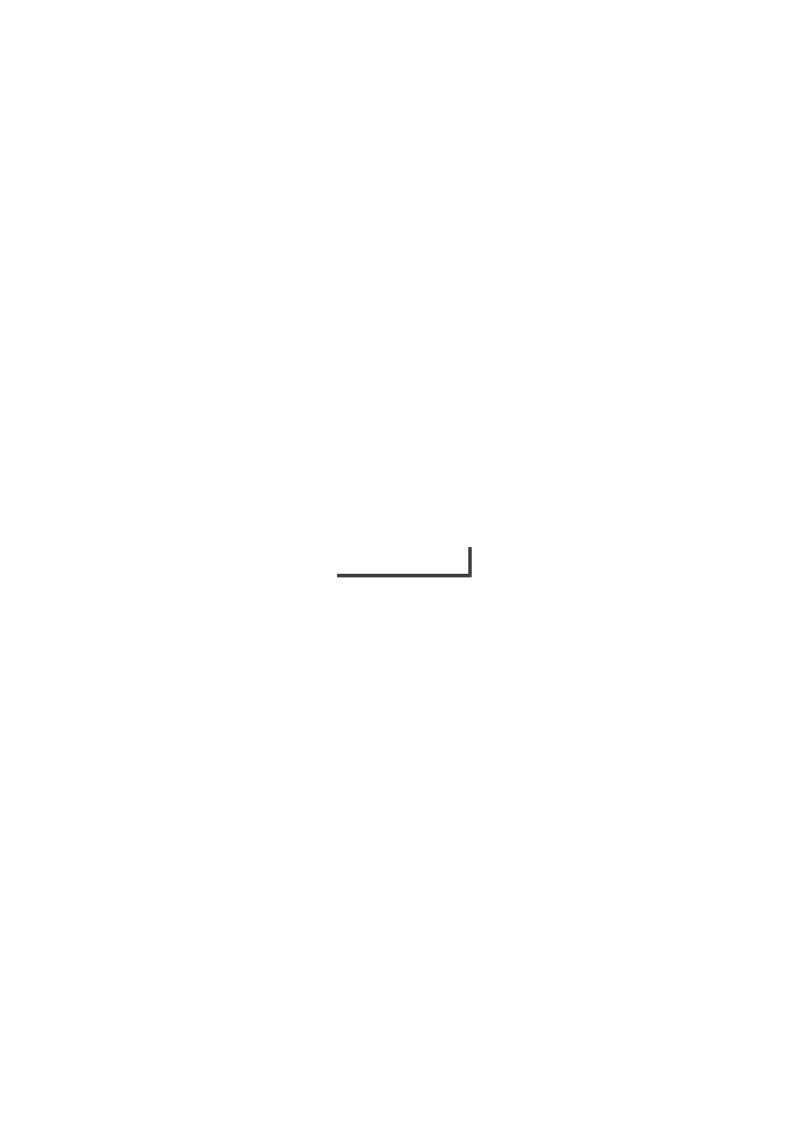
- 1. 目的
- 2. 実験装置と実験方法
- 3. 実験結果
- 4. 考察
- 5. まとめ
- 6. 参考文献
- 7. 風洞実験に対する感想・要望

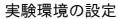
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傸印





送風機回転数	[rpm]	1350
ピトー管差圧	[Pa]	858.0
試験時の 平均温度	[%]	31.8857143

試験時の平均Re数

実験結果

迎角	風洞内 温度	風洞 静圧			
α [deg]	t [℃]	P [hPa]	圧力孔1	圧力孔2	圧力孔3
-20	31.6	1008.05	0.00706475	0.68333429	0.41777345
-18	31.9	1008.03	0.00687864	0.61859434	0.3506653
-16	32.1	1008.03	0.00674134	0.55474849	0.28746031
-14	32.2	1008.02	0.00658571	0.49957582	0.23680117
-12	32.4	1008.01	0.00653389	0.68254391	0.38778992
-10	32.6	1008.02	0.00631714	0.57780459	0.28522649
-8	32.7	1008.01	0.00577083	0.43405151	0.15975341
-6	32.9	1008.01	0.00600592	0.26147156	0.02017207
-4	33.0	1008.00	0.0055542	0.06056213	-0.13572998
-2	33.3	1008.01	0.00503543	-0.18831488	-0.31828619
0	33.4	1007.99	0.00429689	-0.50289922	-0.541864
2	31.0	1007.93	0.0014435	-0.81726684	-0.75354001
4	31.0	1007.96	0.00073247	-1.16149902	-0.97901916
6	31.1	1007.97	-0.00083314	-1.49368898	-1.19239806
8	31.1	1007.98	-0.00158997	-1.85636596	-1.4404938
10	31.2	1007.98	-0.00298772	-2.56560055	-1.4817444
12	31.2	1008.00	-0.00342716	-2.98770752	-1.58061829
14	31.2	1007.99	0.00048828	-0.69167174	-0.69510197
16	31.2	1008.02	0.00014348	-0.63526	-0.63055419
18	31.2	1008.01	0.00113831	-0.64010011	-0.63039555
20	31.3	1008.02	0.00062864	-0.64943238	-0.63814087

実験結果 整理表 ~圧力測量

測定範囲(定格出力の何%か)

P _i -P _s [%]	-37.2~9.4
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翼上面側の出力電圧(P _i -P _s) [V]												
圧力孔4	圧力孔5	圧力孔6	圧力孔7	圧力孔8	圧力孔9	圧力孔10						
0.20350953	0.12472535	-0.05316771	-0.09737853	-0.18098147	-0.27864073	-0.2935608						
0.1434845	0.07772214	-0.09228826	-0.1263855	-0.20056455	-0.28583985	-0.28648989						
0.08799745	0.03594971	-0.12515567	-0.14970396	-0.21488036	-0.28659968	-0.27445063						
0.04679561	0.0087982	-0.14205928	-0.15623477	-0.21069032	-0.26708373	-0.23735045						
0.17454533	0.12182614	-0.02460939	-0.02949833	-0.06732785	-0.08146058	0.03279725						
0.08786316	0.0567108	-0.07589114	-0.06640625	-0.09081116	-0.08328861	0.06217345						
-0.01381831	-0.01860353	-0.13501284	-0.10960389	-0.11882628	-0.08965758	0.08211054						
-0.12285158	-0.09630738	-0.19433589	-0.15179446	-0.14577634	-0.09487609	0.09191591						
-0.24310303	-0.18255309	-0.26162721	-0.20115669	-0.17897645	-0.10797427	0.07154845						
-0.38170777	-0.28291015	-0.34281614	-0.26641844	-0.23173522	-0.15602419	0.01269228						
-0.54937747	-0.40580137	-0.44392396	-0.35009461	-0.30577995	-0.2313904	-0.02879945						
-0.70377812	-0.51317447	-0.53555294	-0.42944329	-0.38428646	-0.25799258	0.0300995						
-0.86462093	-0.63022767	-0.64122623	-0.53005068	-0.39667974	-0.26482234	-0.024234						
-1.02481386	-0.76416628	-0.64510495	-0.49617008	-0.42012939	-0.28476261	-0.01643367						
-1.10101927	-0.75553894	-0.71568297	-0.54846802	-0.44777532	-0.28823551	-0.00191042						
-1.19803472	-0.82868352	-0.75816958	-0.56977537	-0.45333864	-0.27867431	0.00458682						
-1.22214354	-0.84965512	-0.76223145	-0.56204833	-0.43825077	-0.2691925	-0.0215332						
-0.72758492	-0.6318665	-0.75383908	-0.72609862	-0.73558964	-0.69982906	-0.49142146						
-0.65995485	-0.56091308	-0.67384646	-0.64683224	-0.66895139	-0.66958006	-0.50993645						
-0.65936891	-0.56070862	-0.67355035	-0.64609681	-0.66711724	-0.66761166	-0.51678469						
-0.66862183	-0.57329096	-0.68728028	-0.66086426	-0.6810638	-0.68057253	-0.53148499						

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実験日

翼下面側の出力電圧(P _i -P _s) [V]													
圧力孔11	圧力孔12	圧力孔13	圧力孔14	圧力孔15	圧力孔16	圧力孔17							
-0.65368649	-0.6813843	-0.68557433	-0.63322145	-0.65000916	-0.66517335	-0.61360774							
-0.65268252	-0.67097474	-0.67622374	-0.62221984	-0.6362427	-0.65009769	-0.59726259							
-0.66947634	-0.67573242	-0.68246769	-0.62846675	-0.64139095	-0.65609439	-0.60596317							
-0.73759462	-0.72669985	-0.73011169	-0.67651365	-0.68998416	-0.70944525	-0.65863341							
-3.71938783	-3.54561765	-1.93070068	-1.4090179	-1.10887759	-0.85724794	-0.6009613							
-3.47015382	-2.63666074	-2.09943844	-1.30014955	-1.06074524	-0.84086917	-0.60362548							
-2.66653743	-2.17777705	-1.75655514	-1.19786072	-0.94540404	-0.78180845	-0.57268984							
-1.87466737	-1.79105222	-1.39811093	-1.08443907	-0.94908148	-0.69659729	-0.50932922							
-1.15765685	-1.38848266	-1.15459903	-0.91459659	-0.79621586	-0.69052128	-0.54561159							
-0.47094423	-0.95227964	-0.88107905	-0.73071288	-0.65720217	-0.57364196	-0.43591619							
0.13182067	-0.51873469	-0.60092471	-0.53786317	-0.51188358	-0.46083365	-0.34220583							
0.53623655	-0.16640626	-0.36030275	-0.36598507	-0.38139029	-0.35926816	-0.26174616							
0.8013	0.13922118	-0.13799133	-0.20173646	-0.25412595	-0.25994258	-0.1825287							
0.91906734	0.36966554	0.04016718	-0.06940917	-0.15322573	-0.18407286	-0.12902217							
0.9355804	0.5513397	0.19442441	0.04994202	-0.06066591	-0.11459048	-0.0787689							
0.91987616	0.68828733	0.32598572	0.15717773	0.02378238	-0.05026857	-0.03219907							
0.85264889	0.78455508	0.43699956	0.25440671	0.10192567	0.00964969	0.01102293							
0.93732303	0.61219174	0.28326415	0.13014221	-0.00656437	-0.095636	-0.09730223							
0.94080807	0.66087951	0.33477477	0.17435304	0.0270996	-0.07392578	-0.08705443							
0.9370056	0.71777343	0.39895326	0.23216551	0.07439879	-0.03675236	-0.06060491							
0.92734988	0.77055965	0.46199029	0.2911194	0.12439267	0.00279233	-0.03106382							

圧力孔18	圧力孔19	圧力孔20
-0.69745179	-0.64285887	-0.66892091
-0.68130794	-0.62861939	-0.65430297
-0.69195558	-0.64042963	-0.66138915
-0.74047849	-0.67122192	-0.65844421
-0.51606443	-0.27386169	-0.16849673
-0.52937318	-0.29054871	-0.16082158
-0.51522828	-0.29580076	-0.17256158
-0.4774872	-0.28493344	-0.18055418
-0.45844113	-0.26267397	-0.18642276
-0.44363098	-0.2856598	-0.14531548
-0.35173332	-0.21951898	-0.19173281
-0.28146669	-0.15404661	-0.1292633
-0.21509394	-0.09810486	-0.06492004
-0.17646175	-0.08048101	-0.04716183
-0.14151614	-0.06718135	-0.05357057
-0.10894774	-0.05524601	-0.06600341
-0.07958675	-0.04723204	-0.08563541
-0.20060727	-0.19881592	-0.29981993
-0.20104068	-0.21588748	-0.33520509
-0.1841339	-0.21140139	-0.34444886
-0.16234133	-0.20226439	-0.34794312

Sheet5

									実馴	倹結果 曹	を理表 ~	~圧力測5	E∼									
実験環境の	原宝					測定範囲(定	烙出力の何	96.m)			静圧平均	Pa	1008 00190						実験日	222		
次展務回転数	[rpm]	1350		- 例と制御に任任コバリラカナゲ - P-P。 [15]																		
ピトー管券圧	[Pa]	858.0		1,75 1,76 1,76 2,001~37.2 25.2002 p 1,101.0003 1,101.0																		
試験時の 平均温度	['0]	31, 8857143		165810.5							38, 6070801											
平均温度	[0]	31.003/143		103010. 3	77333137	J					/III./6	•	30.0070001									
字驗結果																						
沙角	風洞内 温度	風測				異上	面側の出力電圧	Ε (P,-P,)	[V]							翼下	面側の出力電圧	E (P,-P,)	[V]			
α [deq]	t ['C]	P [hPa]	圧力孔1	田力和2		压力孔4	圧力利力	圧力表6	压力表7	圧力刊8	圧力利3	圧力表10	圧力孔11	圧力刊12	圧力利,13	圧力表14	圧力孔15	圧力和16	E力和17	压力和18	圧力和19	圧力表20
-20	31.6	1008.05	0.00706475		0.41777345			-0.05316771			-0.27864073		-0.65368649		-0.68557433	-0.63322145		-0.66517335		-0.69745179	-0.64285887	-0.66892091
-18	31.9	1008.03	0.00687864	0.61859434	0.3506653	0.1434845	0.07772214	-0.09228826	-0.1263855	-0.20056455	-0.28583985	-0.28648989	-0.65268252	-0.67897474	-0.67622374	-0.62221984	-0.6362427	-0.65009769	-0.59726259	-0.68130794	-0.62861939	-0.65430297
-16	32.1	1008.03	0.00674134	0.55474849	0.28746031	0.08799745	0.03594971	-0.12515567	-0.14970396	-0.21488036	-0.28659968	-0.27445063	-0.66947634	-0.67573242	-0.68246769	-0.62846675	-0.64139895	-0.65609439	-0.60596317	-0.69195558	-0.64842963	-0.66138915
-14	32.2	1008.02	0.00658571	0.49957582	0.23680117	0.04679561	0.0087982	-0.14205928	-0.15623477	-0.21069032	-0.26708373	-0.23735045	-0.73759462	-0.72669985	-0.73011169	-0.67651365	-0.68998416	-0.78944525	-0.65863341	-0.74847849	-0.67122192	-0.65844421
-12	32.4	1008.01	0.00653389	0.68254391	0.38778992	0.17454533	0.12182614	-0.02460939	-0.02949833	-0.06732785	-0.08146058	0.03279725	-3.71938783	-3.54561765	-1.93070068	-1,4090179	-1.10887759	-0.85724794	-0.6009613	-0.51686443	-0.27386169	-0.16849673
-10	32.6	1008.02	0.00631714		0.28522649		0.0567108	-0.07589114	-0.06640625	-0.09081116	-0.08328861		-3.47015382			-1.30014955	-1.06074524	-0.84886917	-0.60362548	-0.52937318	-0.29054871	-0.16082158
-8	32.7	1008.01	0.00577083	0.43405151	0.15975341	-0.01381831		-0.13501284			-0.08965758		-2.66653743		-1.75655514	-1.19786072	-0.94548484	-0.78188845		-0.51522828	-0.29588076	-0.17256158
-6	32.9	1008.01	0.00600592		0.02017207	-0.12285158		-0.19433589			-0.09487609			-1.79105222		-1.08443907	-0.94988148	-0.69659729		-0.4774872	-0.28493344	-0.18055418
-4	33.0	1008.00	0.0055542		-0.13572998	-0.24310303		-0.26162721	-0.20115669					-1.38848266	-1.15459903	-0.91459659	-0.79621586	-0.69852128		-0.45844113	-0.26267397	-0.18642276
-2	33.3	1008.01		-0.18831488	-0.31828619	-0.38170777		-0.34281614			-0.15602419		-0.47094423			-0.73071288	-0.65720217	-0.57364196		-0.44363098	-0.2856598	-0.14531548
0	33.4	1007.99	0.00429689		-0.541864	-0.54937747		-0.44392396		-0.30577995					-0.60092471	-0.53786317	-0.51188358	-0.46883365	-0.34220583	-0.35173332	-0.21951898	-0.19173281
2	31.0	1007.93		-0.81726684	-0.75354001	-0.70377812		-0.53555294	_		-0.25799258		0.53623655			-0.36598507	-0.38139029	-0.35926816		-0.28146669	-0.15484661	-0.1292633
4	31.0	1007.96	0.00073247 -0.00083314	-1.16149902 -1.49368898	-0.97901916 -1.19239806	-0.86462093 -1.02481386		-0.64122623 -0.64518495					0.8013		-0.13799133 0.04016718	-0.20173646 -0.06940917	-0.25412595 -0.15322573	-0.25994258 -0.18407286	-0.1825287 -0.12902217	-0.21509394 -0.17646175	-0.09810486 -0.08048101	-0.06492004 -0.04716183
	31.1	1007.98	-0.00053314	-1,85636596	-1,4484938	-1, 10101927		-0.71568297		-0.42012535				0.5513397	0.19442441	0.04994202	-0. 06066591	-0.11459848	-0.0787689	-0.17040173	-0.06718135	-0.05357057
10	31.2	1007.30			-1,4817444	-1, 19803472		-0.75816958							0.32598572	0.15717773	0.02378238	-0.05026857	-0.03219907	-0.10894774	-0.05710133	-0.06600341
12	31.2	1007.00	-0.00230772		-1,58861829			-0.76223145		-0.43825077					0.43699956	0.25440671	0.10192567	0.00964969		-0.07958675	-0.03324001	-0.08563541
14	31.2	1007, 99			-0.69510197	-0.72758492		-0.75383988				-0.49142146		0.61219174		0.13014221	-0.00656437		-0.09730223	-0,20060727	-0.19881592	-0,29981993
16	31.2	1008, 02	0,00014348	-0.63526	-0.63055419	-0.65995485		-0,67384646				-0,50993645			0.33477477	0, 17435304	0.0270996		-0.08705443	-0, 20104068		-0.33520509
18	31.2	1008, 01	0.00113831	-0,64010011	-0.63039555	-0.65936891		-0,67355035		-0.66711724		-0.51678469		0.71777343	0.39895326	0,23216551	0.07439879	-0.03675236		-0, 1841339	-0,21140139	-0,34444886
28	31.3	1988 92		-B 64943238	-0 63814087				-0.66086426				0,92734988			0,2911194			-0 03106382		-0.20226439	