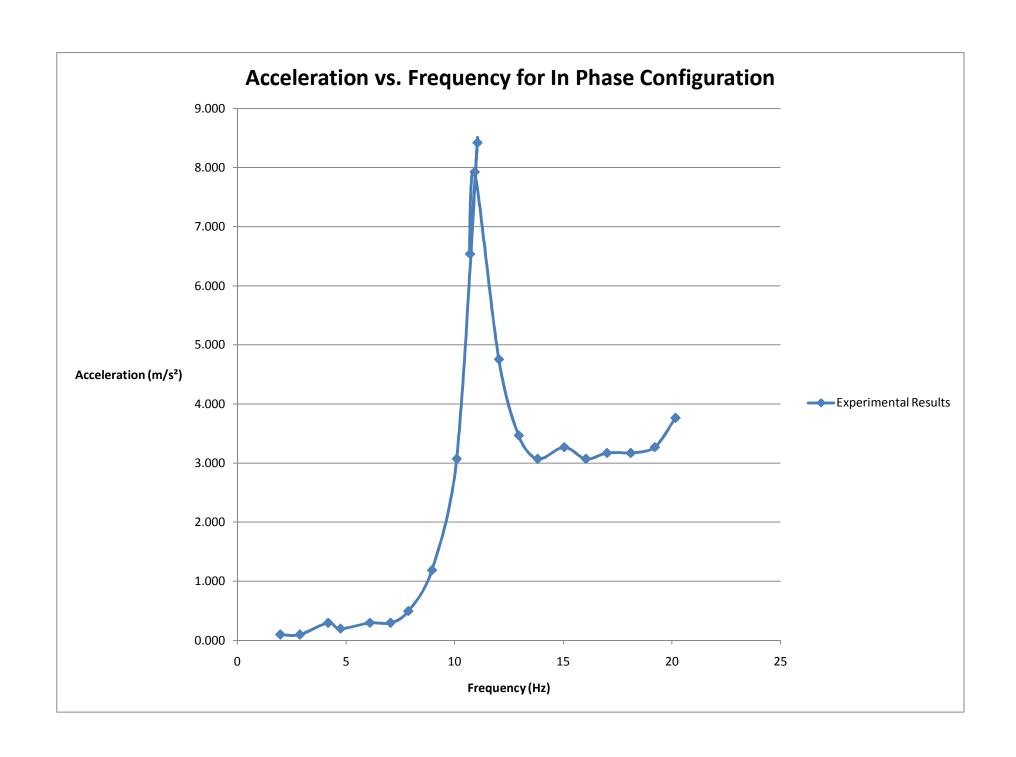
In I	Phase	
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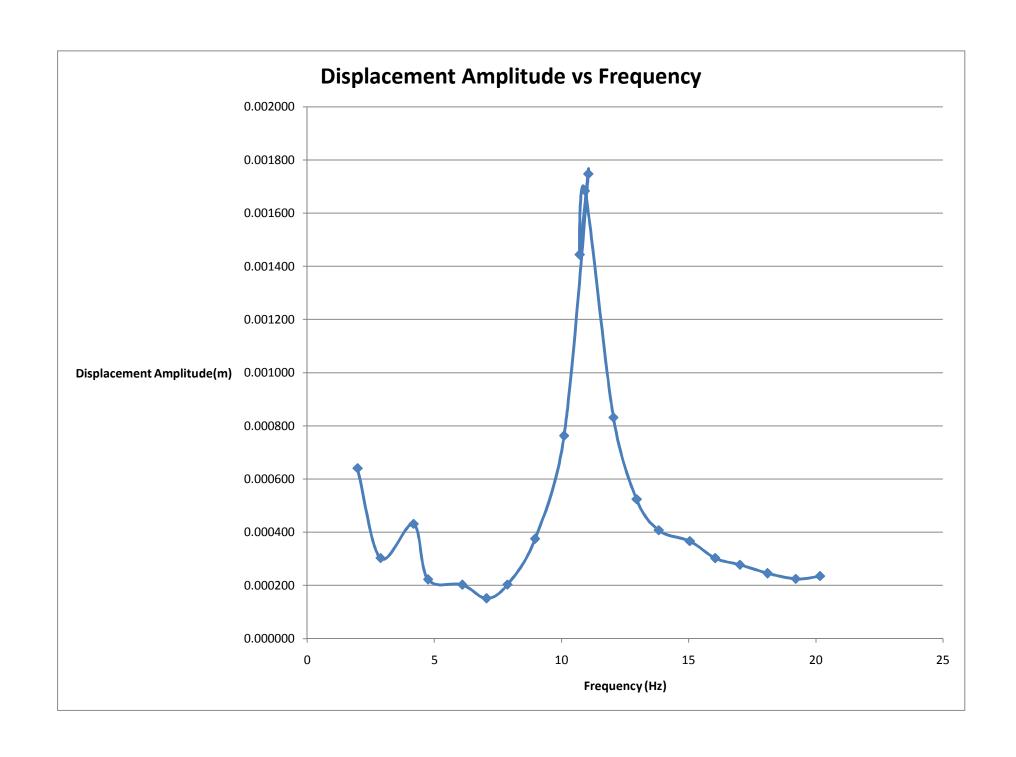
ω Frequency (Hz)	Frequency(ω) Rad/s	r .	Acceleration Amplitude (V)	Acceleration (m/s2)	Displacement Amplitude(m)	Phase Lead of Acceleration(degrees)	phi experimental	Time Shift p		Phi	Y	theoretical Y/ measured y	
20.16	5 126.67	1.81	0.038	3.765	0.000235	4.5	175.5	0.049	176.8038702	175.5	0.00023266	1.43434768	1.446777
19.21	1 120.70	1.73	0.033	3.270	0.000224	4.5	175.5	0.051	176.4912689	175.5	0.00024336	1.50027451	1.383752
18.3	1 113.73	1.63	0.032	3.171	0.000245	5.6	174.4	0.054	176.0245904	174.4	0.00025975	1.60131476	1.511443
18.3	1 113.73	1.63	0.032	3.171	0.000245	5.6	174.4	0.054	176.0245904	174.4	0.00025975	1.60131476	1.511443
17.01	1 106.88	1.53	0.032	3.171	0.000278	7.4	172.6	0.058	175.4042731	172.6	0.00028212	1.73923193	1.711356
16.04	100.78	1.44	0.031	3.072	0.000302	6.7	173.3	0.061	174.63196	173.3	0.00031062	1.91491423	1.864455
15.04	4 94.50	1.35	0.033	3.270	0.000366	9.2	170.8	0.065	173.452592	170.8	0.00035499	2.18844877	2.257446
13.82	2 86.83	1.24	0.031	3.072	0.000407	9.7	170.3	0.07	170.8821715	170.3	0.00045332	2.79466426	2.511566
12.95	5 81.37	1.17	0.035	3.468	0.000524	15.1	164.9	0.074	167.0660559	164.9	0.00059999	3.69888413	3.229442
12.04	4 75.65	1.08	0.048	4.756	0.000831	27.9	152.1	0.077	156.2548705	152.1	0.00100355	6.18674123	5.123743
10.92	2 68.61	0.98	0.08	7.927	0.001684	99.8	80.2	0.066	63.49341884	80.2	0.00202279	12.470284	10.381109
10.71	1 67.29	0.96	0.066	6.540	0.001444	123.3	56.7	0.061	43.61034589	56.7	0.00152913	9.42689703	8.903567
11.05	69.43	0.99	0.085	8.423	0.001747	82.4	97.6	0.07	80.74101519	97.6	0.00225751	13.9172725	10.771927
10.1	1 63.46	0.91	0.031	3.072	0.000763	161.5	18.5	0.055	20.20636842	18.5	0.00072212	4.4517858	4.702383
8.96	5 56.30	0.81	0.012	1.189	0.000375	174.8	5.2	0.057	9.224804747	5.2	0.00029732	1.83295597	2.312940
7.87	7 49.45	0.71	0.005	0.495	0.000203	178.4	1.6	0.064	5.719315123	1.6	0.00016234	1.000834	1.249164
7.05	5 44.30	0.63	0.003	0.297	0.000152	474.9	-294.9	-0.045	4.280461117	-294.9	0.00010892	0.67149128	0.933990
6.1	1 38.33	0.55	0.003	0.297	0.000202	1264.5	-1084.5	-0.412	3.170224391	-1085	6.9829E-05	0.43048991	1.247558
4.75	5 29.85	0.43	0.002	0.198	0.000222	1754	-1574	-0.815	2.111634929	-1574	3.6229E-05	0.22334637	1.371645
4.18	3 26.26	0.38	0.003	0.297	0.000431	-95.7	275.7	0.303	1.769280381	275.7	2.6714E-05	0.16469055	2.656854
2.88	8 18.10	0.26	0.001	0.099	0.000303	2099	-1919	-1.679	1.122135643	-1919	1.1675E-05	0.07197387	1.865581
1.98	3 12.44	0.18	0.001	0.099	0.000640	847.7	-667.7	-0.685	0.743306051	-667.7	5.3169E-06	0.03277823	3.947014

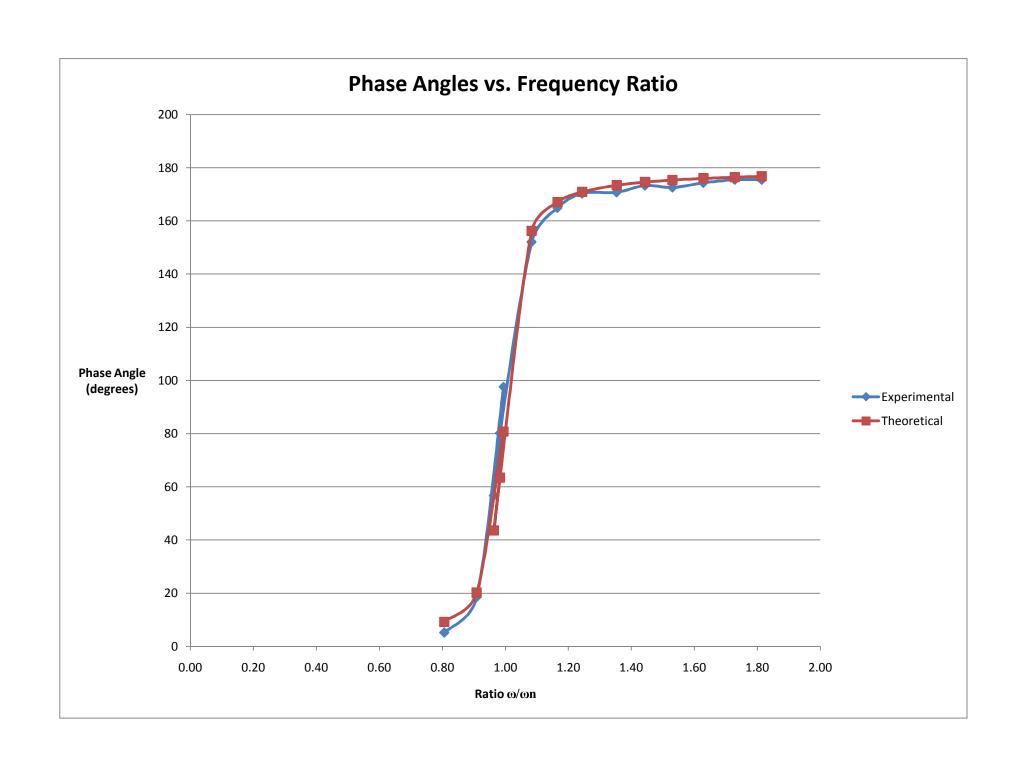
99 mV/g Calibration 0.099 V/g 0.04 m 18277 N/m 73108 N/m Keq 0.0152 Kg m 14.993 Kg 69.8293792 rad/s М ωn ωd 69.785969 rad/s 0.000162209 m u Ai 0.06721 V 9.81 m/s2 g af 0.03458 V del 0.221515522 unitless

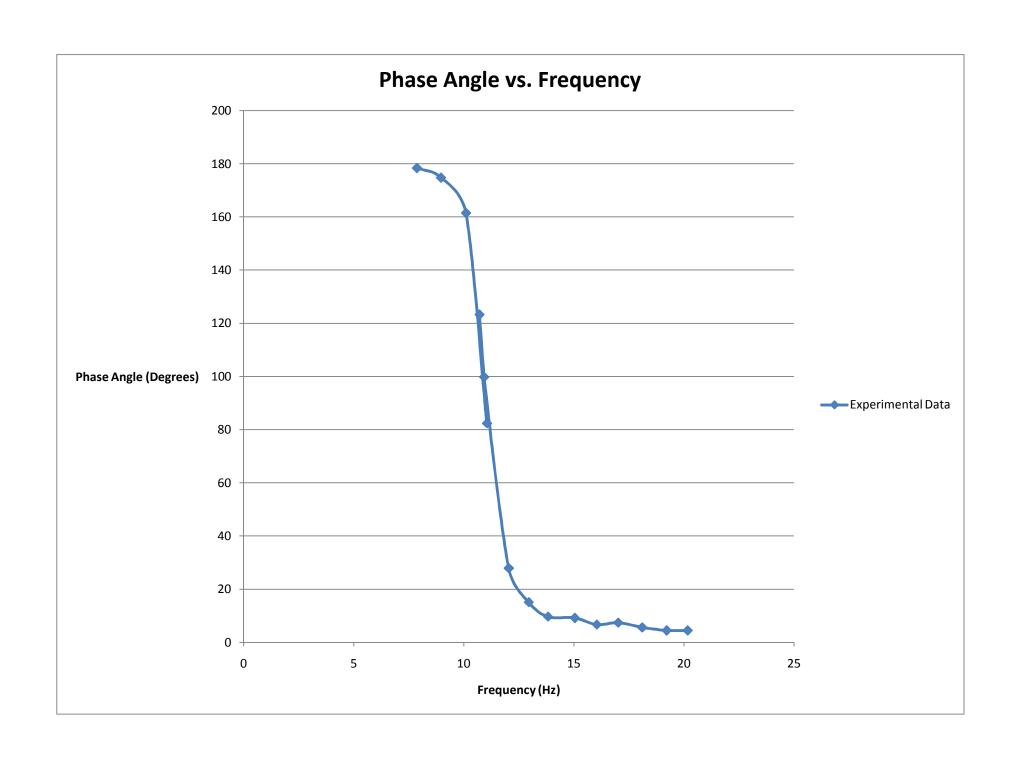
0.03525529 unitless

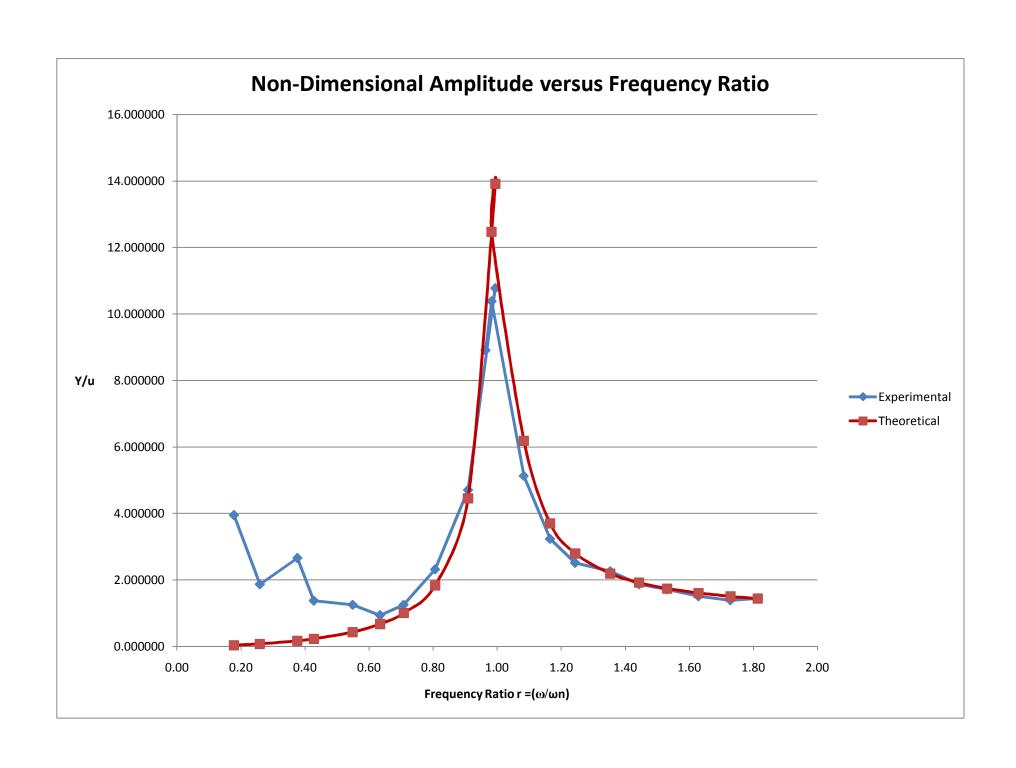
zeta

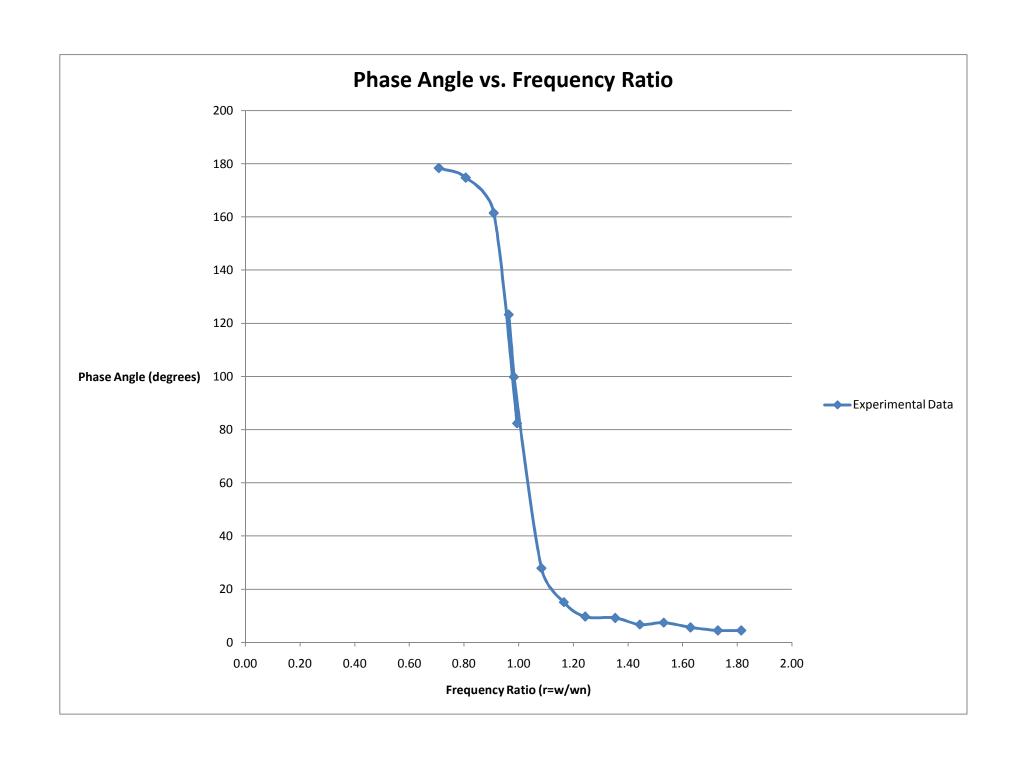












Frequency (Hz)	Frequency(rad/s)	Acceleration Amplitude (V)	Acceleration (m/s^2)	Phase Lead of Acceleration	Time Shift
20.12	126.4176884	0.126	12.48545455	186.1	0.024
18.96	119.1291934	0.123	12.18818182	186.6	0.025
18.09	113.6628222	0.153	15.16090909	188	0.026
17.18	107.9451236	0.205	20.31363636	191.8	0.027
16.38	102.9185753	0.281	27.84454545	198.5	0.027
14.47	90.91769139	0.694	68.76909091	276.7	0.016
14.63	91.92300104	0.056	5.549090909	350.5	0.002
14	87.9645943	0.038	3.765454545	358	0
12.93	81.24158602	0.016	1.585454545	358.1	0
11.88	74.64424145	0.01	0.990909091	2.5	0.084
10.96	68.86371097	0.014	1.387272727	97.9	0.066
10.14	63.71149901	0.009	0.891818182	169.5	0.052
9.16	57.55397741	0.009	0.891818182	181.9	0.054
7.95	49.95132319	0.013	1.288181818	187	0.06
7.28	45.74158904	0.027	2.675454545	190.7	0.065
6.93	43.54247418	0.071	7.035454545	195.6	0.066
6.86	43.10265121	0.089	8.819090909	204.2	0.063
6.58	41.34335932	0.148	14.66545455	288.2	0.03
6.3	39.58406744	0.102	10.10727273	456.2	-0.042
6.06	38.07610296	0.007	0.693636364	6.6	0.162
5.03	31.6044221	0.002	0.198181818	15.7	0.19
4.07	25.5725642	0.001	0.099090909	799.2	-0.299
2.99	18.78672407	0.001	0.099090909	599.4	-0.222

Calibration 99 mV/g 0.099 V/g

