

**Generation of Fourier Amplitude Spectra and Power Spectral Density Functions  
Compatible with Orientation-Independent Design Spectra for Bidirectional Seismic  
Analyses of Nuclear Facilities**

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***Digital Appendix***

Individual results for 50 historic records

RSN	Earthquake Name	Year	Station Name	Mw	Mechanism	Rjb (km)	Vs30 (m/sec)
175	"Imperial Valley-06"	1979	"El Centro Array #12"	6.53	strike slip	17.94	196.88
291	"Irpinia_ Italy-01"	1980	"Rionero In Vulture"	6.9	Normal	27.49	574.88
8163	"El Mayor-Cucapah_ Mexico"	2010	"SANTA ISABEL VIEJO"	7.2	strike slip	55.19	483.02
3347	"Chi-Chi_ Taiwan-06"	1999	"HWA035"	6.3	Reverse	37.67	677.49
2093	"Nenana Mountain_ Alaska"	2002	"TAPS Pump Station #09"	6.7	strike slip	104.73	382.5
5827	"El Mayor-Cucapah_ Mexico"	2010	"MICHOACAN DE OCAMPO"	7.2	strike slip	13.21	242.05
3854	"Chi-Chi_ Taiwan-04"	1999	"CHY010"	6.2	strike slip	31.6	538.69
1838	"Hector Mine"	1999	"Whitewater Trout Farm"	7.13	strike slip	62.91	425.02
2988	"Chi-Chi_ Taiwan-05"	1999	"CHY100"	6.2	Reverse	91.15	230.11
6878	"Joshua Tree_ CA "	1992	"North Palm Springs Fire Sta #36"	6.1	strike slip	21.4	367.84
1594	"Chi-Chi_ Taiwan"	1999	"TTN051"	7.62	Reverse Oblique	30.77	665.2
2721	"Chi-Chi_ Taiwan-04"	1999	"CHY057"	6.2	strike slip	61.9	411.46
6949	"Darfield_ New Zealand"	2010	"PEEC"	7	strike slip	52.13	551.3
3165	"Chi-Chi_ Taiwan-05"	1999	"TCU033"	6.2	Reverse	89.88	423.4
298	"Irpinia_ Italy-02"	1980	"Bovino"	6.2	Normal	43.5	356.39
2990	"Chi-Chi_ Taiwan-05"	1999	"CHY107"	6.2	Reverse	90.92	175.68
3202	"Chi-Chi_ Taiwan-05"	1999	"TCU102"	6.2	Reverse	49.66	714.27
2788	"Chi-Chi_ Taiwan-04"	1999	"HWA041"	6.2	strike slip	49.62	484.97
4039	"Bam_ Iran"	2003	"Baft"	6.6	strike slip	169.53	504.85
792	"Loma Prieta"	1989	"SF - 1295 Shafter"	6.93	Reverse Oblique	68.05	362.4
302	"Irpinia_ Italy-02"	1980	"Rionero In Vulture"	6.2	Normal	22.68	574.88
2982	"Chi-Chi_ Taiwan-05"	1999	"CHY088"	6.2	Reverse	76.09	318.52
5853	"El Mayor-Cucapah_ Mexico"	2010	"La Jolla - UCSD Hospital Grnds"	7.2	strike slip	139.41	477.44
2715	"Chi-Chi_ Taiwan-04"	1999	"CHY047"	6.2	strike slip	38.59	169.52
1338	"Chi-Chi_ Taiwan"	1999	"ILA050"	7.62	Reverse Oblique	63.82	621.06
5990	"El Mayor-Cucapah_ Mexico"	2010	"El Centro Array #7"	7.2	strike slip	27.42	210.51
2952	"Chi-Chi_ Taiwan-05"	1999	"CHY042"	6.2	Reverse	62.84	665.2
3197	"Chi-Chi_ Taiwan-05"	1999	"TCU094"	6.2	Reverse	96.91	589.85
4045	"Bam_ Iran"	2003	"Golbaf"	6.6	strike slip	104.82	441.84
2950	"Chi-Chi_ Taiwan-05"	1999	"CHY035"	6.2	Reverse	52.61	573.04
3859	"Chi-Chi_ Taiwan-05"	1999	"CHY006"	6.2	Reverse	52.99	438.19
8069	"Christchurch_ New Zealand"	2011	"CSTC"	6.2	Reverse Oblique	36.18	332.73
2937	"Chi-Chi_ Taiwan-05"	1999	"CHY015"	6.2	Reverse	77.6	228.66
2958	"Chi-Chi_ Taiwan-05"	1999	"CHY054"	6.2	Reverse	88.66	172.1
551	"Chalfant Valley-02"	1986	"Convict Creek"	6.19	strike slip	29.35	382.12
6013	"El Mayor-Cucapah_ Mexico"	2010	"El Centro - Meadows Union School"	7.2	strike slip	27.81	276.25
2874	"Chi-Chi_ Taiwan-04"	1999	"TCU095"	6.2	strike slip	116.21	446.63
2962	"Chi-Chi_ Taiwan-05"	1999	"CHY058"	6.2	Reverse	96.79	269.28
3495	"Chi-Chi_ Taiwan-06"	1999	"TCU109"	6.3	Reverse	36.58	535.13
1190	"Chi-Chi_ Taiwan"	1999	"CHY019"	7.62	Reverse Oblique	49.98	497.53
762	"Loma Prieta"	1989	"Fremont - Mission San Jose"	6.93	Reverse Oblique	39.32	367.57
2624	"Chi-Chi_ Taiwan-03"	1999	"TCU073"	6.2	Reverse	19.06	473.65
8133	"Christchurch_ New Zealand"	2011	"SLRC"	6.2	Reverse Oblique	31.81	249.28
8060	"Christchurch_ New Zealand"	2011	"ASHS"	6.2	Reverse Oblique	30.46	295.74
2951	"Chi-Chi_ Taiwan-05"	1999	"CHY039"	6.2	Reverse	75.26	201.21
284	"Irpinia_ Italy-01"	1980	"Auletta"	6.9	Normal	9.52	476.62
2743	"Chi-Chi_ Taiwan-04"	1999	"CHY087"	6.2	strike slip	38.32	505.2
6728	"Niigata_ Japan"	2004	"NIGH02"	6.63	Reverse	111.74	360
1837	"Hector Mine"	1999	"Valyermo Forest Fire Station"	7.13	strike slip	135.77	386.88
3025	"Chi-Chi_ Taiwan-05"	1999	"HWA038"	6.2	Reverse	39.93	642.73































































































































































































































