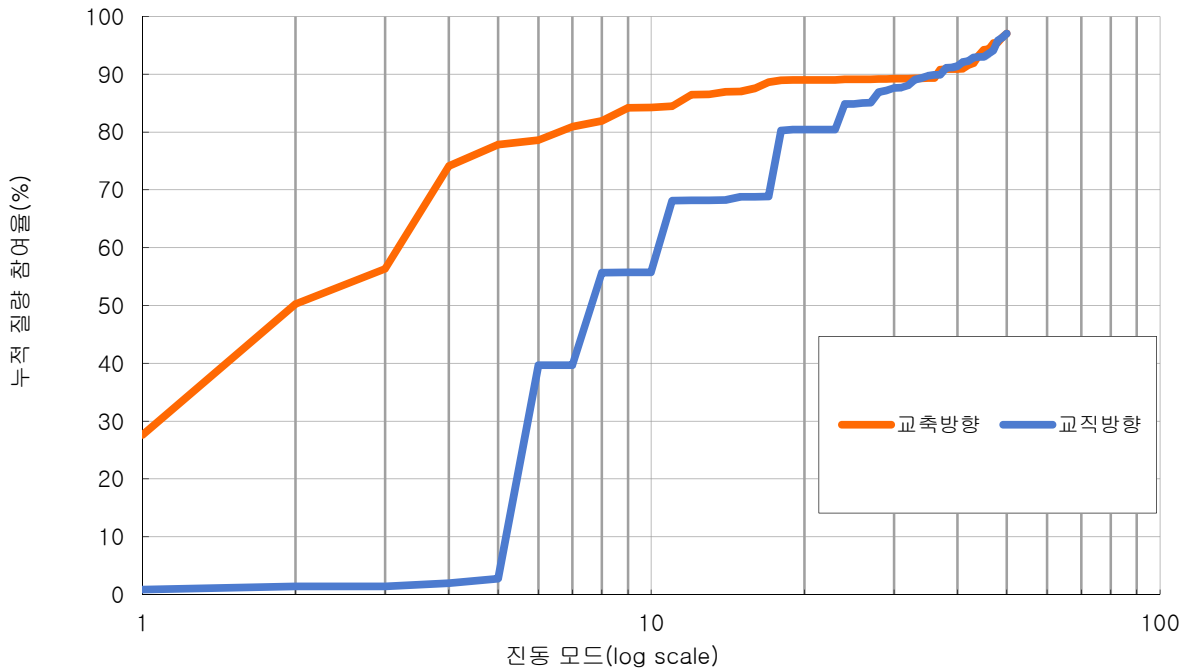


6. 고유치 해석

6.1 해석 결과

모드	주기	INDIVIDUAL MODE (%)			CUMULATIVE SUM (%)			비고
	(sec)	UX	UY	UZ	UX	UY	UZ	
1	3.23	27.57	0.85	0.00	27.57	0.85	0.00	
2	3.19	22.67	0.54	0.00	50.24	1.39	0.00	
3	1.60	6.11	0.02	0.00	56.35	1.41	0.00	
4	1.55	17.77	0.54	0.00	74.12	1.95	0.00	
5	0.91	3.68	0.76	0.00	77.81	2.71	0.00	
6	0.80	0.79	36.96	0.00	78.60	39.67	0.00	
7	0.78	2.34	0.02	0.00	80.94	39.69	0.00	
8	0.72	0.97	16.01	0.00	81.91	55.70	0.00	
9	0.70	2.30	0.04	0.00	84.22	55.74	0.00	
10	0.70	0.02	0.02	1.87	84.24	55.76	1.88	
11	0.63	0.23	12.41	0.00	84.47	68.17	1.88	
12	0.58	2.04	0.05	0.00	86.50	68.21	1.88	
13	0.56	0.01	0.00	0.00	86.51	68.21	1.88	
14	0.53	0.47	0.02	0.91	86.98	68.23	2.78	
15	0.52	0.06	0.57	0.00	87.04	68.80	2.78	
16	0.51	0.55	0.02	0.38	87.58	68.82	3.17	
17	0.50	1.03	0.04	0.13	88.62	68.86	3.30	
18	0.44	0.34	11.42	0.05	88.96	80.28	3.35	
19	0.44	0.06	0.13	2.75	89.01	80.42	6.10	
20	0.41	0.01	0.01	0.00	89.02	80.43	6.11	
21	0.40	0.00	0.00	1.84	89.02	80.43	7.95	
22	0.39	0.00	0.00	12.01	89.02	80.43	19.96	
23	0.37	0.00	0.02	0.23	89.02	80.45	20.19	
24	0.35	0.12	4.42	0.02	89.15	84.86	20.22	
25	0.34	0.01	0.01	0.01	89.15	84.87	20.23	
26	0.31	0.00	0.16	0.00	89.16	85.04	20.23	
27	0.31	0.00	0.03	0.00	89.16	85.07	20.23	
28	0.31	0.06	1.88	0.89	89.22	86.94	21.12	
29	0.30	0.00	0.28	11.03	89.22	87.22	32.16	
30	0.27	0.02	0.40	2.23	89.24	87.63	34.38	
31	0.27	0.01	0.06	9.21	89.24	87.69	43.59	
32	0.25	0.01	0.40	0.10	89.25	88.09	43.69	
33	0.23	0.06	1.00	1.12	89.31	89.09	44.81	
34	0.23	0.00	0.25	2.32	89.31	89.34	47.13	
35	0.22	0.02	0.38	0.47	89.34	89.72	47.61	
36	0.21	0.00	0.18	0.07	89.34	89.90	47.68	
37	0.19	1.46	0.03	0.01	90.80	89.93	47.69	
38	0.19	0.09	1.22	0.00	90.89	91.14	47.69	
39	0.17	0.02	0.03	0.07	90.91	91.18	47.76	
40	0.16	0.00	0.25	0.01	90.92	91.43	47.78	
41	0.13	0.07	0.69	0.07	90.98	92.12	47.85	
42	0.13	0.62	0.17	0.02	91.60	92.30	47.87	
43	0.11	0.28	0.58	0.11	91.88	92.88	47.97	
44	0.11	1.35	0.16	0.08	93.23	93.04	48.06	
45	0.08	1.03	0.00	0.16	94.26	93.04	48.22	
46	0.07	0.08	0.54	0.09	94.34	93.58	48.31	
47	0.06	1.05	0.53	0.03	95.39	94.10	48.34	
48	0.06	0.13	1.75	0.03	95.52	95.85	48.36	
49	0.03	0.89	0.49	0.06	96.42	96.34	48.42	
50	0.03	0.66	0.73	0.01	97.07	97.08	48.44	

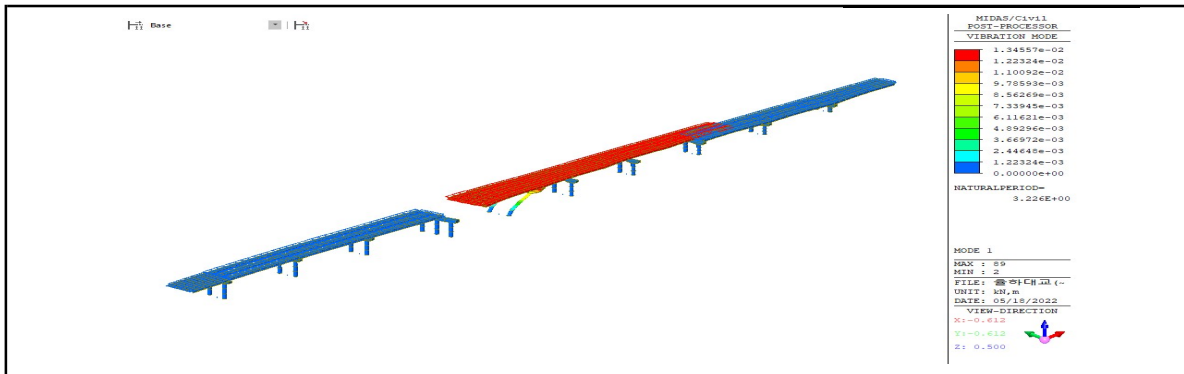
6.2 모드별 질량 참여율 그래프



진동모드의 누적 질량 참여율 (%)

6.3 주요 모드 형상 (Mode Shape)

○ 교축방향 (T = 3.2264 sec) - 1 Mode (A= 0.0642 g)



○ 교축직각방향 (T = 0.7978 sec) - 6 Mode (A= 0.2791 g)

