

Dynamic Analysis - [C:\DOCUMENTS AND SETTINGS\WAHESH\DESKTOP\PALANI\0513 - PHASE-2 PROJ BACKUP\PIPING STRESS BACKU...]

File Edit Tools

Analysis Type: Time History

Time History Definitions Force Sets Time History Load Cases Static/Dynamic Combinations Lumped Masses Snubbers Control Parameters Advanced

Spectrum Table Values

Spectrum Data Points: TH1330

	Frequency (Hz)	Load Factor
6	1.6589	0.0521
7	3.0733	0.0965
8	5.2429	0.1643
9	8.3981	0.2623
10	12.8000	0.3967
11	18.7405	0.5719
12	26.5421	0.7866
13	36.5581	1.0277
14	49.1725	1.2610
15	64.8000	1.4322
16	83.8861	1.5125
17	106.9069	1.4927

Spectrum Data

Save To File OK Cancel

2. From the spectrum table values it is seen that load factor above 1 reaches only after 36Hz, below which the load factor are less.

1. The following is the Time vs load entered in the "DLF-Spectrum Generator"

7.33ms-----0LF(Load factor)
 12.33ms-----1LF
 17.33ms-----0LF

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Analysis Type: Time History

Time History Definitions Force Sets Time History L

Spectrum Name : TH1330

	Cmt	Name	
20	<input type="checkbox"/>	1.60V5	FR
21	<input type="checkbox"/>	1.60V7	FR
22	<input type="checkbox"/>	1.60V10	FR
23	<input type="checkbox"/>		
24	<input checked="" type="checkbox"/>	UNIFORM BUILDING CODE NOR	
25	<input checked="" type="checkbox"/>	SOIL TYPE 1 (ROCK AND STIFF	
26	<input checked="" type="checkbox"/>	SOIL TYPE 2 (DEEP COHESION	
27	<input checked="" type="checkbox"/>	SOIL TYPE 3 (SOFT TO MEDIUM	
28	<input type="checkbox"/>		
29	<input type="checkbox"/>	UBCSOIL1	PE
30	<input type="checkbox"/>	UBCSOIL2	PE
31	<input type="checkbox"/>	UBCSOIL3	PE
32	<input checked="" type="checkbox"/>	FORCE1 , FREQUENCY , FORC	
33	<input type="checkbox"/>	THF1710	TIM
34	<input type="checkbox"/>	THF1540	TIM
35	<input type="checkbox"/>	TH1330	FREQUENC

Range	DLF / Ordinate	Interpol
0	0.0013	LOG
1	0.0205	LOG
2	0.1037	LOG
3	0.3277	
4	0.8000	
5	1.6589	
6	3.0733	
7	5.2429	
8	8.3981	LIN
9	12.8000	LIN

Read From File...

OK Cancel

3. When i open the "Enter/edit spectra data", keeping the "Range type" as frequency, the data are matching as per the spectrum generator. When i change the "Range type" as "Time" instead of "Frequency", for the name (in this TH1330) the corresponding spectrum data is not updated, for details refer sheet-3

4. When i change the "Range type" as "Time" instead of "Frequency", for the name (in this TH1330) the corresponding spectrum data is not updated (i.e) the range in this case is "Time" but the range still shows the value of "Frequency". Please clarify.

Spectrum Name : THF1330

	Range (milliseconds)	DLF / Ordinate (kH)
0	0.0013	0.0013
1	0.0205	0.0005
2	0.1037	0.0033
3	0.3277	0.0103
4	0.8000	0.0251
5	1.6589	0.0521
6	3.0733	0.0965
7	5.2429	0.1643
8	8.3981	0.2623
9	12.8000	0.3967

Buttons: Read From File..., OK, Cancel

Cmt	Name	Range	DLF / Ordinate	Interpolation	Integration
20	1.60V5	FREQUENCY			
21	1.60V7	FREQUENCY			
22	1.60V10	FREQUENCY			
23					
24	UNIFORM BUILDING CODE NORM				
25	SOIL TYPE 1 (ROCK AND STIFF				
26	SOIL TYPE 2 (DEEP COHESIONL				
27	SOIL TYPE 3 (SOFT TO MEDIUM				
28					
29	UBCSOIL1	PER			LIN
30	UBCSOIL2	PER			LIN
31	UBCSOIL3	PER			LIN
32	FORCE1 , FREQUENCY , FORCE-MULTIPLIER , LINEAR , LINEAR				
33	THF1710	TIME	FORCE-MULTIPLIER	LINEAR	LINEAR
34	THF1540	FREQUENCY	FORCE-MULTIPLIER	LINEAR	LINEAR
35	THF1330	TIME	FORCE-MULTIPLIER	LINEAR	LINEAR

5. Actually, my doubt is that the range and load factor should be changed to what i entered in the DLF-spectrum generator" (i.e.)
 7.33ms-----0LF(Load factor)
 12.33ms-----1LF
 17.33ms-----0LF
 but it shows the value of frequency.
 Please clarify...

6. Also, once i change the range type from "Frequency" to "Time" i am not able to change back to "Frequency". Please clarify.