

RUAUMOKO INPUT FILE
Four STOREY FRAME – Time History Analysis

* 15 seconds of excitation with a time-step of 0.01 seconds

2 0 1 0 0 0 2 0 0 ! Control parameters PDelta Included
 35 52 5 4 1 4 9.81 5.0 5.0 0.02 72 1.0 ! Structure parameters
 0 10 10 0 1 10 0.7 0.1 ! Output parameters
 0 0 0.05 ! Iteration parameters

NODES 1

1 0.0 0.00 1 1 1 ! Level 0 - Ground Level
 2 8.4 0.00 1 1 1
 3 18.0 0.00 1 1 1
 4 27.6 0.00 1 1 1
 5 37.2 0.00 1 1 1
 6 46.8 0.00 1 1 1
 7 55.2 0.00 1 1 1
 8 0.0 4.20 0 0 0 9 0 0 ! Level 1
 9 8.4 4.20 0 0 0 10 0 0
 10 18.0 4.20 0 0 0 11 0 0
 11 27.6 4.20 0 0 0 12 0 0
 12 37.2 4.20 0 0 0 13 0 0
 13 46.8 4.20 0 0 0 14 0 0
 14 55.2 4.20 0 0 0 0 0 0
 15 0.0 7.60 0 0 0 16 0 0 ! Level 2
 16 8.4 7.60 0 0 0 17 0 0
 17 18.0 7.60 0 0 0 18 0 0
 18 27.6 7.60 0 0 0 19 0 0
 19 37.2 7.60 0 0 0 20 0 0
 20 46.8 7.60 0 0 0 21 0 0
 21 55.2 7.60 0 0 0 0 0 0
 22 0.0 11.00 0 0 0 23 0 0 ! Level 3
 23 8.4 11.00 0 0 0 24 0 0
 24 18.0 11.00 0 0 0 25 0 0
 25 27.6 11.00 0 0 0 26 0 0
 26 37.2 11.00 0 0 0 27 0 0
 27 46.8 11.00 0 0 0 28 0 0
 28 55.2 11.00 0 0 0 0 0 0
 29 0.0 14.40 0 0 0 30 0 0 ! Level 4
 30 8.4 14.40 0 0 0 31 0 0
 31 18.0 14.40 0 0 0 32 0 0
 32 27.6 14.40 0 0 0 33 0 0
 33 37.2 14.40 0 0 0 34 0 0
 34 46.8 14.40 0 0 0 35 0 0
 35 55.2 14.40 0 0 0 0 0 0

Appendix-D

ELEMENTS 1
1 1 1 8 1 8 ! Column Line 1
2 2 8 15 8 15
3 5 15 22
4 5 22 29
5 1 2 9 ! Column Line 2
6 2 9 16
7 5 16 23
8 5 23 30
9 1 3 10 ! Column Line 3
10 2 10 17
11 5 17 24
12 5 24 31
13 1 4 11 4 11 ! Column Line 4
14 2 11 18 11 18
15 5 18 25
16 5 25 32
17 1 5 12 ! Column Line 5
18 2 12 19
19 5 19 26
20 5 26 33
21 1 6 13 ! Column Line 6
22 2 13 20
23 5 20 27
24 5 27 34
25 1 7 14 7 14 ! Column Line 7
26 2 14 21
27 5 21 28
28 5 28 35
29 3 8 9 8 9 ! Level 1 Beam
30 4 9 10
31 4 10 11
32 4 11 12
33 4 12 13
34 3 13 14
35 3 15 16 15 16 ! Level 2 Beam
36 4 16 17
37 4 17 18
38 4 18 19
39 4 19 20
40 3 20 21
41 3 22 23 22 23 ! Level 3 Beam
42 4 23 24
43 4 24 25
44 4 25 26
45 4 26 27

Appendix-D

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46 3 27 28
47 3 29 30 29 30          ! Level 4 Beam
48 4 30 31
49 4 31 32
50 4 32 33
51 4 33 34
52 3 34 35 34 35
PROPS
1 FRAME                    ! Ground floor Columns
  2 0 0 2 0 0
  3.198E7 1.33E7 0.25 0.25 0.002447 0.0 0.000 0.492
  0.02 0.02 .25 .25
  -15862.0 -9517.0 754.0 977.0 1136.0 1013.0 9148.0 0

2 FRAME                    ! All Columns above 1st Floor
  2 0 0 2 0 0
  3.198E7 1.33E7 0.25 0.25 0.002447 0.0 0.492 0.492
  0.02 0.02 .25 .25
  -15862.0 -9517.0 754.0 977.0 1136.0 1013.0 9148.0 0

3 FRAME                    ! All 8.4 m span Beams
  1 0 1 4 0 0
  3.198E7 1.33E7 0.474 0.4100 0.005039 0.0 0.25 0.25
  0.00458 0.00458 .447 .447
  -299.2 -299.2 -213.7 213.7
  2379.0 -3.1e4 400.0 -1119.0 400.0 -1119.0
  0.5 0.6 1 2

4 FRAME                    ! All 9.6 m span Beams
  1 0 1 4 0 0
  3.198E7 1.33E7 0.474 0.4100 0.005039 0.0 0.25 0.25
  0.00458 0.00458 .447 .447
  -391.0 -391.0 -244.0 244.0
  2379.0 -3.1e4 400.0 -1119.0 400.0 -1119.0
  0.5 0.6 1 2

5 FRAME                    ! All Columns above 1st Floor
  2 0 0 2 0 0
  3.198E7 1.33E7 0.25 0.25 0.00188 0.0 0.492 0.492
  0.02 0.02 .25 .25
  -13355.0 -8013.0 680.0 847.0 913.0 735.0 5827.0 0

WEIGHTS                    ! Weights not included in member self-weight
1  0.0 0.0 0.0          ! Level 0 - Ground Level
2  0.0 0.0 0.0
3  0.0 0.0 0.0
4  0.0 0.0 0.0

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Appendix-D

5	0.0	0.0	0.0	
6	0.0	0.0	0.0	
7	0.0	0.0	0.0	
8	214.0	214.0	000.0	! Level 1 - Ground Level
9	458.0	458.0	000.0	
10	488.0	488.0	000.0	
11	488.0	488.0	000.0	
12	488.0	488.0	000.0	
13	458.0	458.0	000.0	
14	214.0	214.0	000.0	
15	214.0	214.0	000.0	! Level 2 - Ground Level
16	458.0	458.0	000.0	
17	488.0	488.0	000.0	
18	488.0	488.0	000.0	
19	488.0	488.0	000.0	
20	458.0	458.0	000.0	
21	214.0	214.0	000.0	
22	214.0	214.0	000.0	! Level 3 - Ground Level
23	458.0	458.0	000.0	
24	488.0	488.0	000.0	
25	488.0	488.0	000.0	
26	488.0	488.0	000.0	
27	458.0	458.0	000.0	
28	214.0	214.0	000.0	
29	214.0	214.0	000.0	! Level 4 - Ground Level
30	458.0	458.0	000.0	
31	488.0	488.0	000.0	
32	488.0	488.0	000.0	
33	488.0	488.0	000.0	
34	458.0	458.0	000.0	
35	214.0	214.0	000.0	
LOADS				! Loads not in member initial conditions
				! i.e. transverse walls etc, columns
1	0.0	00.0	0.0	! Level 0 - Ground Level
2	0.0	00.0	0.0	
3	0.0	00.0	0.0	
4	0.0	00.0	0.0	
5	0.0	00.0	0.0	
6	0.0	00.0	0.0	
7	0.0	00.0	0.0	!Level 1
8	0.0	00.0	0.0	
9	0.0	00.0	0.0	
10	0.0	00.0	0.0	
11	0.0	00.0	0.0	
12	0.0	00.0	0.0	
13	0.0	00.0	0.0	

Appendix-D

14 0.0 00.0 0.0
15 0.0 00.0 0.0 ! Level 2
16 0.0 00.0 0.0
17 0.0 00.0 0.0
18 0.0 00.0 0.0
19 0.0 00.0 0.0
20 0.0 00.0 0.0
21 0.0 00.0 0.0
22 0.0 00.0 0.0 ! Level 3
23 0.0 00.0 0.0
24 0.0 00.0 0.0
25 0.0 00.0 0.0
26 0.0 00.0 0.0
27 0.0 00.0 0.0
28 0.0 00.0 0.0
29 0.0 00.0 0.0 ! Level 4
30 0.0 00.0 0.0
31 0.0 00.0 0.0
32 0.0 00.0 0.0
33 0.0 00.0 0.0
34 0.0 00.0 0.0
35 0.0 00.0 0.0

EQUAKE

3 1 0.01 9.81 0 0 0 1

! Free Format