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**Nombre del profesor:** pedro Alberto García

**Nombre del trabajo:** Edificio

**Materia:** Análisis De Estructuras

**Grado: 5to**

**Grupo: "A"**

Comitán de Domínguez Chiapas a 11 de Marzo de 2022.

STAAD.Pro V8i (SELECTseries 6) - Structure1

File  Edit  View  Tools  Select  Geometry  Commands  Analyze  Mode  Bentley Cloud Services  Window  Help

Modeling  Building Planner  Piping  Bridge Deck  Postprocessing  Foundation Design  Steel Design  RAM Connection  Concrete Design  Advanced Slab Design  Earthquake

Structure1 - Whole Structure

Load 1

For Help, press F1

Modeling Mo  Load 1 : SX     Input Units:  kg-m

**Load & Definition**

- Definitions
  - Vehicle Definitions
  - Time History Definitions
  - Wind Definitions
  - Snow Definition
  - Reference Load Definitions
  - Seismic Definition ( MEX: CFE - 1993 )
    - ZONE 3 QX 2 QZ 2 GROUP B STYP 2
  - Pushover Definitions
  - Direct Analysis Definition
- Load Cases Details
  - 1 : SX
  - 2 : SZ
  - 3 : CM
  - 4 : CVM
  - 5 : CVA
  - 6 : 1.3 CM + 1.5 CVA
  - 7 : 1.1(CM+CVA+SX)+0.3SZ
  - 8 : 1.1(CM+CVA+SX) -0.3SZ
  - 9 : 1.1(CM+CVA-SX)+0.3SZ
  - 10 : 1.1(CM+CVA-SX)-0.3SZ
  - 11 : 1.1(CM+CVA+SZ)+0.3SX
  - 12 : 1.1(CM+CVA+SZ)-0.3SX
  - 13 : 1.1(CM+CVA-SZ)+0.3SX
  - 14 : 1.1(CM+CVA-SZ)-0.3SX
  - 15 : 1.0CM+1.0CVM
- Load Envelopes

New...   Add...   Edit ...   Delete...

Toggle Load

Assignment Method
- Assign To Selected Entities
- Assign To View
- Use Cursor To Assign
- Assign To Edit List

Assign   Close   Help

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STAAD.Pro V8i (SELECTseries 6) - Structure1

File  Edit  View  Tools  Select  Geometry  Commands  Analyze  Mode  Bentley Cloud Services  Window  Help

8: 1.1(CM+CVA+SX) -0.3SZ

Modeling  Building Planner  Piping  Bridge Deck  Postprocessing  Foundation Design  Steel Design  RAM Connection  Concrete Design  Advanced Slab Design  Earthquake

Structure1 - Whole Structure

Load 8

For Help, press F1

Modeling Mo  Load 8 : 1.1(CM+CVA+SX) -(  Input Units:  kg-m

**Structure1 - Nodes**

| Node | X m | Y m | Z m |
|---|---|---|---|
| 1 | 0.000 | 0.000 | 0.000 |
| 2 | 0.000 | 0.000 | -7.000 |
| 3 | 0.000 | 0.000 | -12.000 |
| 4 | 0.000 | 0.000 | -19.000 |
| 5 | 5.000 | 0.000 | 0.000 |
| 6 | 5.000 | 0.000 | -7.000 |
| 7 | 5.000 | 0.000 | -12.000 |
| 8 | 5.000 | 0.000 | -19.000 |
| 9 | 10.000 | 0.000 | 0.000 |
| 10 | 10.000 | 0.000 | -7.000 |
| 11 | 10.000 | 0.000 | -12.000 |
| 12 | 10.000 | 0.000 | -19.000 |
| 13 | 15.000 | 0.000 | 0.000 |
| 14 | 15.000 | 0.000 | -7.000 |
| 15 | 15.000 | 0.000 | -12.000 |
| 16 | 15.000 | 0.000 | -19.000 |
| 17 | 20.000 | 0.000 | -7.000 |
| 18 | 20.000 | 0.000 | -12.000 |
| 19 | 0.000 | 3.500 | 0.000 |
| 20 | 5.000 | 3.500 | 0.000 |

**Structure1 - Plates**

| Plate | Node A | Node B | Node C |
|---|---|---|---|
| 195 | 79 | 78 | 82 |
| 196 | 85 | 84 | 90 |
| 197 | 86 | 85 | 91 |
| 198 | 87 | 86 | 92 |
| 199 | 82 | 81 | 85 |
| 200 | 83 | 82 | 86 |
| 201 | 78 | 77 | 81 |
| 202 | 77 | 76 | 80 |
| 203 | 60 | 59 | 63 |
| 204 | 59 | 58 | 62 |
| 205 | 58 | 57 | 61 |
| 206 | 41 | 40 | 44 |
| 207 | 40 | 39 | 43 |
| 208 | 38 | 42 | 43 |
| 209 | 22 | 21 | 26 |
| 210 | 26 | 21 | 20 |
| 211 | 25 | 20 | 19 |
| 212 | 37 | 32 | 31 |
| 213 | 36 | 31 | 30 |
| 214 | 35 | 30 | 29 |

STAAD.Pro V8i (SELECTseries 6) - Structure1

File  Edit  View  Tools  Select  Geometry  Commands  Analyze  Mode  Bentley Cloud Services  Window  Help

Modeling | Building Plann

Structure1.anl - STAAD Output Viewer

File  Edit  View  Help

```
      **********************************************************
      *                                                        *
      *              STAAD.Pro V8i SELECTseries6               *
      *              Version  20.07.11.45                      *
      *              Proprietary Program of                    *
      *              Bentley Systems, Inc.                     *
      *              Date=    MAR 11, 2022                      *
      *              Time=    23:38:58                          *
      *                                                        *
      *        USER ID:                                        *
      **********************************************************
```

```
      1. STAAD SPACE
INPUT FILE: C:\Users\DELL\Desktop\staad pro\Structure1.STD
      2. START JOB INFORMATION
      3. ENGINEER DATE 21-FEB-22
      4. END JOB INFORMATION
      5. INPUT WIDTH 79
      6. UNIT METER KG
      7. JOINT COORDINATES
      8. 1 0 0 0; 2 0 0 -7; 3 0 0 -12; 4 0 0 -19; 5 5 0 0; 6 5 0 -7; 7 5 0 -12
      9. 8 5 0 -19; 9 10 0 0; 10 10 0 -7; 11 10 0 -12; 12 10 0 -19; 13 15 0 0
```

WARNING
**WARNING- JOINT NO.  71 NOT CON
**WARNING- THIS STRUCTURE IS DISJO
**WARNING- IF THIS UBC/IBC ANALYS
*WARNING- ZERO STIFFNESS IN DIREC
*WARNING- ZERO STIFFNESS IN DIREC
*WARNING- ZERO STIFFNESS IN DIREC
*WARNING- ZERO STIFFNESS IN DIREC
*WARNING- ZERO STIFFNESS IN DIREC

NOTES
RESULTS

Total Page : 168          NUM

**Structure1 - Nodes**

| Node | X m | Y m | Z m |
|---|---|---|---|
| 1 | 0.000 | 0.000 | 0.000 |
| 2 | 0.000 | 0.000 | -7.000 |
| 3 | 0.000 | 0.000 | -12.000 |
| 4 | 0.000 | 0.000 | -19.000 |
| 5 | 5.000 | 0.000 | 0.000 |
| 6 | 5.000 | 0.000 | -7.000 |
| 7 | 5.000 | 0.000 | -12.000 |
| 8 | 5.000 | 0.000 | -19.000 |
| 9 | 10.000 | 0.000 | 0.000 |
| 10 | 10.000 | 0.000 | -7.000 |
| 11 | 10.000 | 0.000 | -12.000 |
| 12 | 10.000 | 0.000 | -19.000 |
| 13 | 15.000 | 0.000 | 0.000 |
| 14 | 15.000 | 0.000 | -7.000 |
| 15 | 15.000 | 0.000 | -12.000 |
| 16 | 15.000 | 0.000 | -19.000 |
| 17 | 20.000 | 0.000 | -7.000 |
| 18 | 20.000 | 0.000 | -12.000 |
| 19 | 0.000 | 3.500 | 0.000 |
| 20 | 5.000 | 3.500 | 0.000 |

**Structure1 - Plates**

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|---|---|---|---|
| 195 | 79 | 78 | 82 |
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| 198 | 87 | 86 | 92 |
| 199 | 82 | 81 | 85 |
| 200 | 83 | 82 | 86 |
| 201 | 78 | 77 | 81 |
| 202 | 77 | 76 | 80 |
| 203 | 60 | 59 | 63 |
| 204 | 59 | 58 | 62 |
| 205 | 58 | 57 | 61 |
| 206 | 41 | 40 | 44 |
| 207 | 40 | 39 | 43 |
| 208 | 38 | 42 | 43 |
| 209 | 22 | 21 | 26 |
| 210 | 26 | 21 | 20 |
| 211 | 25 | 20 | 19 |
| 212 | 37 | 32 | 31 |
| 213 | 36 | 31 | 30 |
| 214 | 35 | 30 | 29 |

For Help, press F1

Modeling Mo: Load 8 : 1.1(CM+CVA+SX) -( Input Units:  kg-m

Load 8