

Slide Analysis Information

SLIDE - An Interactive Slope Stability Program

Project Summary

File Name: TCC Paula - com berma.slim
 Slide Modeler Version: 7.026
 Project Title: SLIDE - An Interactive Slope Stability Program
 Date Created: 21/11/2017, 10:40:29

General Settings

Units of Measurement: Metric Units
 Time Units: days
 Permeability Units: meters/second
 Failure Direction: Left to Right
 Data Output: Standard
 Maximum Material Properties: 20
 Maximum Support Properties: 20

Analysis Options

Slices Type: Vertical

Analysis Methods Used

GLE/Morgenstern-Price with interslice force function: Bishop simplified
 Half Sine
 Janbu corrected
 Spencer

Number of slices: 20
 Tolerance: 0.005
 Maximum number of iterations: 75
 Check $m_{\alpha} < 0.2$: Yes
 Create Interslice boundaries at intersections with water tables and piezos: Yes
 Initial trial value of FS: 1
 Steffensen Iteration: Yes

Groundwater Analysis

Groundwater Method: Water Surfaces
 Pore Fluid Unit Weight [kN/m³]: 9.81
 Use negative pore pressure cutoff: Yes
 Maximum negative pore pressure [kPa]: 0
 Advanced Groundwater Method: None

Random Numbers

Pseudo-random Seed: 10116
 Random Number Generation Method: Park and Miller v.3

Surface Options

Surface Type: Circular
 Search Method: Slope Search
 Number of Surfaces: 5000
 Upper Angle: Not Defined
 Lower Angle: Not Defined
 Composite Surfaces: Disabled
 Reverse Curvature: Invalid Surfaces
 Minimum Elevation: Not Defined
 Minimum Depth: Not Defined
 Minimum Area: Not Defined
 Minimum Weight: Not Defined

Seismic

Advanced seismic analysis: No
 Staged pseudostatic analysis: No

Loading

1 Distributed Load present

Distributed Load 1

Distribution: Constant
 Magnitude [kPa]: 20
 Orientation: Normal to boundary

Material Properties

Property	aterro	argila arenosa	berma	estaca	Argila arenosa dura
Color					
Strength Type	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb	Mohr-Coulomb
Unit Weight [kN/m3]	17	20	17	25	22
Cohesion [kPa]	20	50	20	400	100
Friction Angle [deg]	15	25	15	50	50
Water Surface	None	None	None	None	None
Ru Value	0	0	0	0	0

Global Minimums

Method: bishop simplified

FS	2.228310
Center:	13.174, 16.712
Radius:	6.755
Left Slip Surface Endpoint:	6.904, 14.200
Right Slip Surface Endpoint:	12.293, 10.015
Resisting Moment:	2056.75 kN-m
Driving Moment:	923.011 kN-m
Total Slice Area:	10.193 m2
Surface Horizontal Width:	5.3891 m
Surface Average Height:	1.89142 m

Method: janbu corrected

FS	2.156470
Center:	13.174, 16.712
Radius:	6.755
Left Slip Surface Endpoint:	6.904, 14.200
Right Slip Surface Endpoint:	12.293, 10.015
Resisting Horizontal Force:	253.28 kN
Driving Horizontal Force:	117.451 kN
Total Slice Area:	10.193 m ²
Surface Horizontal Width:	5.3891 m
Surface Average Height:	1.89142 m

Method: spencer

FS	2.449000
Center:	13.924, 17.649
Radius:	7.780
Left Slip Surface Endpoint:	6.950, 14.200
Right Slip Surface Endpoint:	12.277, 10.045
Resisting Moment:	2497.13 kN-m
Driving Moment:	1019.65 kN-m
Resisting Horizontal Force:	258.044 kN
Driving Horizontal Force:	105.367 kN
Total Slice Area:	9.29138 m ²
Surface Horizontal Width:	5.32737 m
Surface Average Height:	1.74408 m

Method: gle/morgenstern-price

FS	2.452800
Center:	13.174, 16.712
Radius:	6.755
Left Slip Surface Endpoint:	6.904, 14.200
Right Slip Surface Endpoint:	12.293, 10.015
Resisting Moment:	2263.96 kN-m
Driving Moment:	923.011 kN-m
Resisting Horizontal Force:	271.522 kN
Driving Horizontal Force:	110.699 kN
Total Slice Area:	10.193 m ²
Surface Horizontal Width:	5.3891 m
Surface Average Height:	1.89142 m

Valid / Invalid Surfaces

Method: bishop simplified

Number of Valid Surfaces: 251
Number of Invalid Surfaces: 4749

Error Codes:

Error Code -112 reported for 3 surfaces
Error Code -113 reported for 13 surfaces
Error Code -114 reported for 4733 surfaces

Method: janbu corrected

Number of Valid Surfaces: 226
Number of Invalid Surfaces: 4774

Error Codes:

Error Code -108 reported for 25 surfaces
Error Code -112 reported for 3 surfaces
Error Code -113 reported for 13 surfaces
Error Code -114 reported for 4733 surfaces

Method: spencer

Number of Valid Surfaces: 23
Number of Invalid Surfaces: 4977

Error Codes:

Error Code -108 reported for 190 surfaces
Error Code -111 reported for 38 surfaces
Error Code -112 reported for 3 surfaces
Error Code -113 reported for 13 surfaces
Error Code -114 reported for 4733 surfaces

Method: gle/morgenstern-price

Number of Valid Surfaces: 200
Number of Invalid Surfaces: 4800

Error Codes:

Error Code -108 reported for 42 surfaces
Error Code -111 reported for 9 surfaces
Error Code -112 reported for 3 surfaces
Error Code -113 reported for 13 surfaces
Error Code -114 reported for 4733 surfaces

Error Codes

The following errors were encountered during the computation:

-108 = Total driving moment or total driving force < 0.1. This is to limit the calculation of extremely high safety factors if the driving force is very small (0.1 is an arbitrary number).
-111 = safety factor equation did not converge
-112 = The coefficient $M\text{-Alpha} = \cos(\alpha)(1 + \tan(\alpha)\tan(\phi)/F) < 0.2$ for the final iteration of the safety factor calculation. This screens out some slip surfaces which may not be valid in the context of the analysis, in particular, deep seated slip surfaces with many high negative base angle slices in the passive zone.
-113 = Surface intersects outside slope limits.
-114 = Surface with Reverse Curvature.

Slice Data

Global Minimum Query (bishop simplified) - Safety Factor: 2.22831

Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]	Base Vertical Stress [kPa]	Effective Vertical Stress [kPa]
1	0.258768	1.25005	-65.5194	aterro	20	15	9.46231	21.085	4.04917	0	4.04917	24.831	24.831
2	0.258768	3.51153	-60.6319	aterro	20	15	10.7212	23.8902	14.5185	0	14.5185	33.5704	33.5704
3	0.258768	5.37994	-56.4097	aterro	20	15	11.7526	26.1884	23.0953	0	23.0953	40.7908	40.7908
4	0.258768	6.98185	-52.6178	aterro	20	15	12.6361	28.1572	30.4432	0	30.4432	46.9812	46.9812
5	0.258768	8.38459	-49.1325	aterro	20	15	13.4126	29.8874	36.9003	0	36.9003	52.402	52.402
6	0.258768	9.62931	-45.8786	aterro	20	15	14.106	31.4326	42.6668	0	42.6668	57.2122	57.2122
7	0.258768	10.7434	-42.8061	aterro	20	15	14.732	32.8274	47.8725	0	47.8725	61.5174	61.5174
8	0.258768	11.7461	-39.8799	aterro	20	15	15.3014	34.0962	52.6077	0	52.6077	65.3925	65.3925
9	0.258768	12.6517	-37.0741	aterro	20	15	15.822	35.2563	56.9375	0	56.9375	68.8923	68.8923
10	0.258768	13.471	-34.3688	aterro	20	15	16.2998	36.321	60.9106	0	60.9106	72.0583	72.0583
11	0.258768	14.2125	-31.7486	aterro	20	15	16.7393	37.3003	64.5657	0	64.5657	74.9237	74.9237
12	0.25	21.1303	-29.2428	estaca	400	50	172.932	385.346	-12.2958	0	-12.2958	84.5222	84.5222
13	0.28658	9.36759	-26.6674	berma	20	15	12.171	27.1207	26.5748	0	26.5748	32.6875	32.6875
14	0.28658	10.0287	-23.977	berma	20	15	12.5141	27.8854	29.4287	0	29.4287	34.9943	34.9943
15	0.28658	10.6119	-21.3418	berma	20	15	12.8255	28.5793	32.0182	0	32.0182	37.0295	37.0295
16	0.28658	10.7577	-18.7532	berma	20	15	12.9602	28.8793	33.1379	0	33.1379	37.5381	37.5381
17	0.28658	8.73966	-16.2039	berma	20	15	12.2157	27.2203	26.9465	0	26.9465	30.4964	30.4964
18	0.28658	6.32017	-13.6872	berma	20	15	11.2965	25.1721	19.3026	0	19.3026	22.0537	22.0537
19	0.28658	3.836	-11.1971	berma	20	15	10.3389	23.0382	11.3389	0	11.3389	13.3855	13.3855
20	0.28658	1.28901	-8.72838	berma	20	15	9.34377	20.8208	3.06336	0	3.06336	4.4979	4.4979

Global Minimum Query (janbu corrected) - Safety Factor: 2.15647

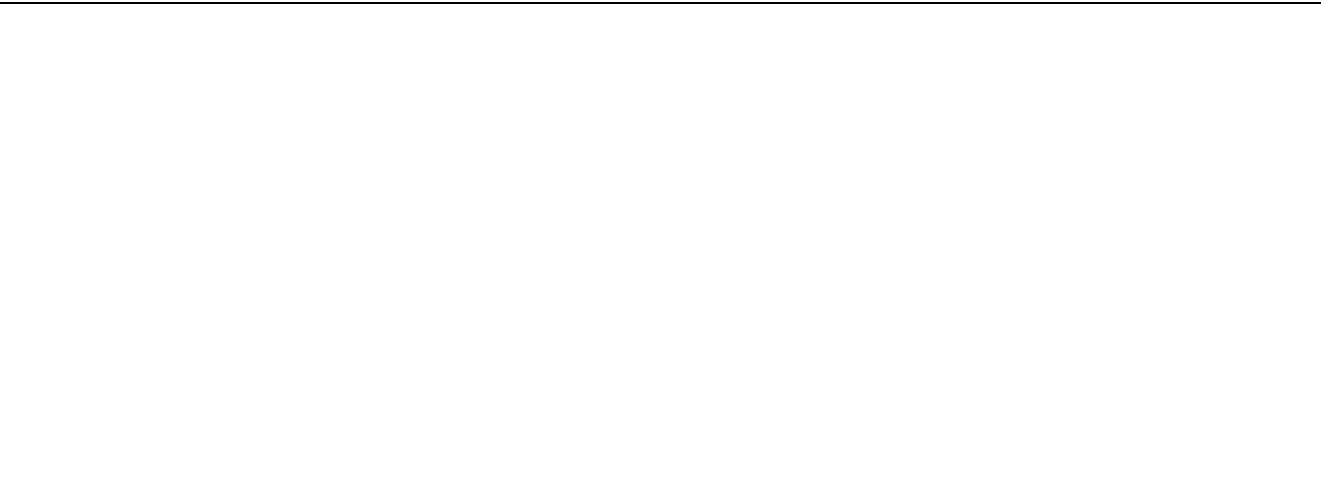
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Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]	Base Vertical Stress [kPa]	Effective Vertical Stress [kPa]
1	0.258768	1.25005	-65.5194	aterro	20	15	9.59271	20.6864	2.56168	0	2.56168	23.6299	23.6299
2	0.258768	3.51153	-60.6319	aterro	20	15	10.9014	23.5085	13.0939	0	13.0939	32.466	32.466
3	0.258768	5.37994	-56.4097	aterro	20	15	11.9748	25.8233	21.7327	0	21.7327	39.7628	39.7628
4	0.258768	6.98185	-52.6178	aterro	20	15	12.8954	27.8085	29.1417	0	29.1417	46.0191	46.0191
5	0.258768	8.38459	-49.1325	aterro	20	15	13.7052	29.5549	35.6593	0	35.6593	51.4992	51.4992
6	0.258768	9.62931	-45.8786	aterro	20	15	14.4291	31.116	41.4854	0	41.4854	56.364	56.364
7	0.258768	10.7434	-42.8061	aterro	20	15	15.0834	32.5268	46.7506	0	46.7506	60.7209	60.7209
8	0.258768	11.7461	-39.8799	aterro	20	15	15.6791	33.8115	51.5451	0	51.5451	64.6455	64.6455
9	0.258768	12.6517	-37.0741	aterro	20	15	16.2245	34.9876	55.9345	0	55.9345	68.1934	68.1934
10	0.258768	13.471	-34.3688	aterro	20	15	16.7256	36.0682	59.9674	0	59.9674	71.4063	71.4063
11	0.258768	14.2125	-31.7486	aterro	20	15	17.1872	37.0636	63.6823	0	63.6823	74.3175	74.3175
12	0.25	21.1303	-29.2428	estaca	400	50	174.975	377.328	-19.0242	0	-19.0242	78.9374	78.9374
13	0.28658	9.36759	-26.6674	berma	20	15	12.5107	26.979	26.046	0	26.046	32.3293	32.3293
14	0.28658	10.0287	-23.977	berma	20	15	12.8708	27.7555	28.9437	0	28.9437	34.668	34.668
15	0.28658	10.6119	-21.3418	berma	20	15	13.1982	28.4615	31.5786	0	31.5786	36.7355	36.7355
16	0.28658	10.7577	-18.7532	berma	20	15	13.3437	28.7752	32.7496	0	32.7496	37.28	37.28
17	0.28658	8.73966	-16.2039	berma	20	15	12.5834	27.1358	26.6312	0	26.6312	30.2879	30.2879
18	0.28658	6.32017	-13.6872	berma	20	15	11.6423	25.1062	19.0568	0	19.0568	21.8921	21.8921
19	0.28658	3.836	-11.1971	berma	20	15	10.6604	22.9889	11.1549	0	11.1549	13.2651	13.2651
20	0.28658	1.28901	-8.72838	berma	20	15	9.63894	20.7861	2.93368	0	2.93368	4.41353	4.41353

Global Minimum Query (spencer) - Safety Factor: 2.449

Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]	Base Vertical Stress [kPa]	Effective Vertical Stress [kPa]
1	0.279999	1.22841	-61.5207	aterro	20	15	8.43472	20.6566	2.45053	0	2.45053	17.9987	17.9987
2	0.279999	3.50051	-57.4418	aterro	20	15	9.47822	23.2122	11.988	0	11.988	26.8325	26.8325
3	0.279999	5.45407	-53.7805	aterro	20	15	10.1182	24.7795	17.8374	0	17.8374	31.6523	31.6523
4	0.279999	7.16996	-50.4171	aterro	20	15	10.6403	26.0582	22.6096	0	22.6096	35.4794	35.4794
5	0.279999	8.69762	-47.279	aterro	20	15	11.1252	27.2456	27.0411	0	27.0411	39.0885	39.0885
6	0.279999	10.07	-44.3179	aterro	20	15	11.5975	28.4023	31.3575	0	31.3575	42.6821	42.6821
7	0.279999	11.3103	-41.5	aterro	20	15	12.0646	29.5462	35.6268	0	35.6268	46.3007	46.3007
8	0.279999	12.4356	-38.8002	aterro	20	15	12.5283	30.6817	39.8645	0	39.8645	49.9376	49.9376
9	0.279999	13.4592	-36.1994	aterro	20	15	12.9884	31.8086	44.0703	0	44.0703	53.5761	53.5761
10	0.279999	14.391	-33.6826	aterro	20	15	13.4445	32.9257	48.2392	0	48.2392	57.1997	57.1997
11	0.25	19.9552	-31.3653	estaca	400	50	199.435	488.418	74.1911	0	74.1911	195.761	195.761
12	0.253042	7.4841	-29.2195	berma	20	15	10.5842	25.9207	22.0962	0	22.0962	28.0162	28.0162
13	0.253042	8.06709	-27.1051	berma	20	15	10.8769	26.6374	24.7712	0	24.7712	30.3384	30.3384
14	0.253042	8.5998	-25.0299	berma	20	15	11.1638	27.3401	27.3936	0	27.3936	32.6065	32.6065
15	0.253042	9.08232	-22.9894	berma	20	15	11.4443	28.0271	29.9574	0	29.9574	34.8127	34.8127
16	0.253042	8.33125	-20.9792	berma	20	15	11.3083	27.6939	28.7142	0	28.7142	33.0503	33.0503
17	0.253042	6.55028	-18.9958	berma	20	15	10.7932	26.4324	24.0062	0	24.0062	27.7217	27.7217
18	0.253042	4.72738	-17.0358	berma	20	15	10.2297	25.0525	18.8561	0	18.8561	21.9906	21.9906
19	0.253042	2.86393	-15.0962	berma	20	15	9.6163	23.5503	13.25	0	13.25	15.844	15.844
20	0.253042	0.961117	-13.1741	berma	20	15	8.95163	21.9226	7.17505	0	7.17505	9.27036	9.27036

Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.4528



Slice Number	Width [m]	Weight [kN]	Angle of Slice Base [degrees]	Base Material	Base Cohesion [kPa]	Base Friction Angle [degrees]	Shear Stress [kPa]	Shear Strength [kPa]	Base Normal Stress [kPa]	Pore Pressure [kPa]	Effective Normal Stress [kPa]	Base Vertical Stress [kPa]	Effective Vertical Stress [kPa]
1	0.258768	1.25005	-65.5194	aterro	20	15	8.7287	21.4097	5.26126	0	5.26126	24.4319	24.4319
2	0.258768	3.51153	-60.6319	aterro	20	15	9.55329	23.4323	12.8096	0	12.8096	29.786	29.786
3	0.258768	5.37994	-56.4097	aterro	20	15	10.086	24.7388	17.6856	0	17.6856	32.8718	32.8718
4	0.258768	6.98185	-52.6178	aterro	20	15	10.4921	25.735	21.4033	0	21.4033	35.1352	35.1352
5	0.258768	8.38459	-49.1325	aterro	20	15	10.8155	26.5283	24.364	0	24.364	36.8642	36.8642
6	0.258768	9.62931	-45.8786	aterro	20	15	11.1071	27.2434	27.0328	0	27.0328	38.4858	38.4858
7	0.258768	10.7434	-42.8061	aterro	20	15	11.4328	28.0424	30.0148	0	30.0148	40.6039	40.6039
8	0.258768	11.7461	-39.8799	aterro	20	15	11.8442	29.0514	33.7803	0	33.7803	43.6765	43.6765
9	0.258768	12.6517	-37.0741	aterro	20	15	12.3596	30.3157	38.4985	0	38.4985	47.8373	47.8373
10	0.258768	13.471	-34.3688	aterro	20	15	12.9715	31.8165	44.0997	0	44.0997	52.9711	52.9711
11	0.258768	14.2125	-31.7486	aterro	20	15	13.6662	33.5205	50.459	0	50.459	58.9154	58.9154
12	0.25	21.1303	-29.2428	estaca	400	50	215.634	528.908	108.167	0	108.167	228.892	228.892
13	0.28658	9.36759	-26.6674	berma	20	15	11.0268	27.0466	26.2983	0	26.2983	31.8364	31.8364
14	0.28658	10.0287	-23.977	berma	20	15	11.4228	28.0178	29.9227	0	29.9227	35.0029	35.0029
15	0.28658	10.6119	-21.3418	berma	20	15	11.8179	28.9868	33.5395	0	33.5395	38.157	38.157
16	0.28658	10.7577	-18.7532	berma	20	15	12.076	29.6201	35.9025	0	35.9025	40.0025	40.0025
17	0.28658	8.73966	-16.2039	berma	20	15	11.5567	28.3464	31.149	0	31.149	34.5074	34.5074
18	0.28658	6.32017	-13.6872	berma	20	15	10.7497	26.367	23.7619	0	23.7619	26.3798	26.3798
19	0.28658	3.836	-11.1971	berma	20	15	9.76459	23.9506	14.7438	0	14.7438	16.6767	16.6767
20	0.28658	1.28901	-8.72838	berma	20	15	8.6352	21.1804	4.40539	0	4.40539	5.73114	5.73114

Interslice Data

Global Minimum Query (bishop simplified) - Safety Factor: 2.22831

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	6.90355	14.2	0	0	0
2	7.16232	13.6317	-0.147272	0	0
3	7.42108	13.1718	3.7546	0	0
4	7.67985	12.7822	9.71182	0	0
5	7.93862	12.4435	16.7523	0	0
6	8.19739	12.1445	24.3175	0	0
7	8.45616	11.8776	32.0521	0	0
8	8.71493	11.638	39.7138	0	0
9	8.97369	11.4218	47.1286	0	0
10	9.23246	11.2262	54.1668	0	0
11	9.49123	11.0493	60.7287	0	0
12	9.75	10.8891	66.7356	0	0
13	10	10.7492	21.782	0	0
14	10.2866	10.6052	22.119	0	0
15	10.5732	10.4778	22.2836	0	0
16	10.8597	10.3658	22.1933	0	0
17	11.1463	10.2685	21.7035	0	0
18	11.4329	10.1852	20.4469	0	0
19	11.7195	10.1154	18.5568	0	0
20	12.0061	10.0587	16.2371	0	0
21	12.2926	10.0147	0	0	0

Global Minimum Query (janbu corrected) - Safety Factor: 2.15647

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation and treatment.
2	Jane Smith	Medical	Closed	2023-01-02	15:30	Room 202	Jane Smith, 60 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers and anti-nausea medication.
3	Michael Brown	Medical	Open	2023-01-03	08:45	Room 303	Michael Brown, 30 years old, male, presented with severe headache and vomiting. Vital signs: BP 130/90, HR 100, RR 22, SpO2 97%.	ECG showed sinus tachycardia. CT scan of the head showed no abnormalities.	Admitted to the medical ward for further observation and treatment.
4	Sarah Johnson	Medical	Closed	2023-01-04	12:15	Room 404	Sarah Johnson, 55 years old, female, presented with dizziness and lightheadedness. Vital signs: BP 100/60, HR 60, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed normal electrolyte levels.	Discharged home with oral fluids and rest instructions.
5	David Wilson	Medical	Open	2023-01-05	09:30	Room 505	David Wilson, 70 years old, male, presented with confusion and memory loss. Vital signs: BP 140/100, HR 110, RR 24, SpO2 98%.	ECG showed sinus tachycardia. MRI of the brain showed no abnormalities.	Admitted to the medical ward for further observation and treatment.
6	Emily Davis	Medical	Closed	2023-01-06	14:00	Room 606	Emily Davis, 25 years old, female, presented with fever and cough. Vital signs: BP 115/75, HR 85, RR 20, SpO2 97%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics and cough syrup.
7	Robert Miller	Medical	Open	2023-01-07	11:00	Room 707	Robert Miller, 65 years old, male, presented with chest pain and sweating. Vital signs: BP 125/85, HR 95, RR 21, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation and treatment.
8	Lisa Anderson	Medical	Closed	2023-01-08	16:45	Room 808	Lisa Anderson, 40 years old, female, presented with abdominal pain and diarrhea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers and anti-diarrheal medication.
9	James Taylor	Medical	Open	2023-01-09	07:15	Room 909	James Taylor, 50 years old, male, presented with severe headache and vomiting. Vital signs: BP 135/95, HR 105, RR 23, SpO2 97%.	ECG showed sinus tachycardia. CT scan of the head showed no abnormalities.	Admitted to the medical ward for further observation and treatment.
10	Amanda White	Medical	Closed	2023-01-10	13:00	Room 1010	Amanda White, 35 years old, female, presented with dizziness and lightheadedness. Vital signs: BP 105/65, HR 65, RR 17, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed normal electrolyte levels.	Discharged home with oral fluids and rest instructions.

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	6.90355	14.2	0	0	0
2	7.16232	13.6317	-1.1679	0	0
3	7.42108	13.1718	1.87147	0	0
4	7.67985	12.7822	7.06368	0	0
5	7.93862	12.4435	13.4061	0	0
6	8.19739	12.1445	20.3222	0	0
7	8.45616	11.8776	27.4451	0	0
8	8.71493	11.638	34.5244	0	0
9	8.97369	11.4218	41.3805	0	0
10	9.23246	11.2262	47.8791	0	0
11	9.49123	11.0493	53.9172	0	0
12	9.75	10.8891	59.4131	0	0
13	10	10.7492	10.5133	0	0
14	10.2866	10.6052	10.4725	0	0
15	10.5732	10.4778	10.2628	0	0
16	10.8597	10.3658	9.80083	0	0
17	11.1463	10.2685	8.94533	0	0
18	11.4329	10.1852	7.35147	0	0
19	11.7195	10.1154	5.15487	0	0
20	12.0061	10.0587	2.55847	0	0
21	12.2926	10.0147	0	0	0

Global Minimum Query (spencer) - Safety Factor: 2.449

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	6.95001	14.2	0	0	0
2	7.23001	13.6839	-1.09903	-0.831154	37.0988
3	7.51001	13.2453	1.50174	1.13571	37.0989
4	7.79001	12.863	5.48527	4.1483	37.0988
5	8.07	12.5244	10.1604	7.68392	37.0988
6	8.35	12.2212	15.2416	11.5267	37.099
7	8.63	11.9477	20.5649	15.5525	37.0989
8	8.91	11.7	26.0094	19.6699	37.0988
9	9.19	11.4749	31.4729	23.8018	37.0989
10	9.47	11.27	36.8639	27.8788	37.0989
11	9.75	11.0834	42.0981	31.8372	37.0988
12	10	10.931	3.5005	2.6473	37.0989
13	10.253	10.7894	3.94719	2.98511	37.0988
14	10.5061	10.6599	4.40069	3.32807	37.0988
15	10.7591	10.5418	4.80996	3.63759	37.0988
16	11.0122	10.4344	5.12753	3.87776	37.0989
17	11.2652	10.3374	5.04958	3.8188	37.0988
18	11.5183	10.2503	4.40714	3.33296	37.0989
19	11.7713	10.1727	3.27829	2.47925	37.0989
20	12.0243	10.1045	1.74719	1.32133	37.0988
21	12.2774	10.0452	0	0	0

Global Minimum Query (gle/morgenstern-price) - Safety Factor: 2.4528

[illegible]

Slice Number	X coordinate [m]	Y coordinate - Bottom [m]	Interslice Normal Force [kN]	Interslice Shear Force [kN]	Interslice Force Angle [degrees]
1	6.90355	14.2	0	0	0
2	7.16232	13.6317	0.72963	0.1024	7.989
3	7.42108	13.1718	4.14594	1.15051	15.5095
4	7.67985	12.7822	8.42464	3.44028	22.2131
5	7.93862	12.4435	12.9562	6.866	27.9209
6	8.19739	12.1445	17.4419	11.1538	32.5982
7	8.45616	11.8776	21.7787	15.9965	36.2974
8	8.71493	11.638	26.0116	21.1433	39.1056
9	8.97369	11.4218	30.2479	26.3979	41.1118
10	9.23246	11.2262	34.5744	31.5585	42.3889
11	9.49123	11.0493	39.0198	36.37	42.987
12	9.75	10.8891	43.5602	40.5217	42.9304
13	10	10.7492	4.74893	4.31388	42.2517
14	10.2866	10.6052	5.37152	4.61783	40.6852
15	10.5732	10.4778	5.90924	4.65087	38.2045
16	10.8597	10.3658	6.27535	4.34566	34.7025
17	11.1463	10.2685	6.30516	3.64855	30.0563
18	11.4329	10.1852	5.58473	2.50594	24.1664
19	11.7195	10.1154	4.16006	1.27409	17.0281
20	12.0061	10.0587	2.19593	0.34102	8.82732
21	12.2926	10.0147	0	0	0

List Of Coordinates

Distributed Load

X	Y
9.75	14.2
0	14.2

External Boundary

X	Y
0	14.2
0	10
0	4
0	0
20	2.84e-014
20	4
20	10
12.3	10
11	12.6
10	12.6
10	14.2
9.75	14.2

Material Boundary

X	Y
9.75	14.2
9.75	10
9.75	4.3
10	4.3
10	10
12.3	10

Material Boundary

X	Y
10	10
10	12.6

Material Boundary

X	Y
0	10
9.75	10

Material Boundary

X	Y
0	4
20	4