
Point G

Stresses:

Ma = 0.000
Mm = 0.000
Ta = 0.000
Tm = 199.580

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.825
kc = 0.590
Se = 10.900

Stress Concentrations

Kt = 2.140
Kts = 3.000
r = 0.036
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.696
Kfs = 2.353

#--- Solving for n using Goodman criterion ---#

Se = 10.900
Kf = 1.696
Goodman: n = 75.531

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.825
kc = 0.590
Se = 10.900

Stress Concentrations

Kt = 2.140
Kts = 3.000
r = 0.036
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.696
Kfs = 2.353

#--- Solving for n using yielding criterion ---#

Se = 10.900
Kf = 1.696
yielding: n = 62.705

Point H

Stresses:

Ma = 0.000
Mm = 0.000
Ta = 0.000
Tm = 199.580

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.827
kc = 0.590
Se = 10.926

Stress Concentrations

Kt = 1.700
Kts = 1.500
r = 0.177
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.543
Kfs = 1.411

#--- Solving for n using Goodman criterion ---#

Se = 10.926
Kf = 1.543
Goodman: n = 118.067

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.827
kc = 0.590
Se = 10.926

Stress Concentrations

Kt = 1.700
Kts = 1.500
r = 0.177
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.543
Kfs = 1.411

#--- Solving for n using yielding criterion ---#

Se = 10.926
Kf = 1.543
yielding: n = 98.018

Point I

Stresses:

Ma = 0.000
Mm = 0.000
Ta = 0.000
Tm = 199.580

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.827
kc = 0.590
Se = 10.926

Stress Concentrations

Kt = 5.000
Kts = 3.000
r = 0.010
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091

Kf = 2.808
Kfs = 2.048

#--- Solving for n using Goodman criterion ---#
Se = 10.926
Kf = 2.808
Goodman: n = 81.368

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.827
kc = 0.590
Se = 10.926

Stress Concentrations
Kt = 5.000
Kts = 3.000
r = 0.010
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 2.808
Kfs = 2.048

#--- Solving for n using yielding criterion ---#
Se = 10.926
Kf = 2.808
yielding: n = 67.551

Point J

Stresses:
Ma = 60.393
Mm = 0.000
Ta = 0.000
Tm = 199.580

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.827
kc = 1.000
Se = 18.518

Stress Concentrations
Kt = 2.700
Kts = 2.200
r = 0.035
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 2.034
Kfs = 1.809

#--- Solving for n using Goodman criterion ---#
Se = 18.518
Kf = 2.034
Goodman: n = 43.355

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.827

kc = 1.000
Se = 18.518

Stress Concentrations

Kt = 2.700
Kts = 2.200
r = 0.035
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 2.034
Kfs = 1.809

#--- Solving for n using yielding criterion ---#

Se = 18.518
Kf = 2.034
yielding: n = 54.896

Point K

Stresses:

Ma = 140.916
Mm = 0.000
Ta = 0.000
Tm = 199.580

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.807
kc = 1.000
Se = 18.072

Stress Concentrations

Kt = 1.700
Kts = 1.500
r = 0.215
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.555
Kfs = 1.418

#--- Solving for n using Goodman criterion ---#

Se = 18.072
Kf = 1.555
Goodman: n = 58.147

Endurance Limit

S'e = 26.500
ka = 0.845
kb = 0.807
kc = 1.000
Se = 18.072

Stress Concentrations

Kt = 1.700
Kts = 1.500
r = 0.215
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.555
Kfs = 1.418

```
#--- Solving for n using yielding criterion ---#  
Se = 18.072  
Kf = 1.555  
yielding: n = 92.312
```

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Point L  
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```
Stresses:  
Ma = 181.178  
Mm = 0.000  
Ta = 0.000  
Tm = 199.580
```

```
Endurance Limit  
S'e = 26.500  
ka = 0.845  
kb = 0.791  
kc = 1.000  
Se = 17.706
```

```
Stress Concentrations  
Kt = 5.000  
Kts = 3.000  
r = 0.010  
sqrt(a) [bending] = 0.121  
sqrt(a) [torsion] = 0.091  
Kf = 2.808  
Kfs = 2.048
```

```
#--- Solving for n using Goodman criterion ---#  
Se = 17.706  
Kf = 2.808  
Goodman: n = 40.638
```

```
Endurance Limit  
S'e = 26.500  
ka = 0.845  
kb = 0.791  
kc = 1.000  
Se = 17.706
```

```
Stress Concentrations  
Kt = 5.000  
Kts = 3.000  
r = 0.010  
sqrt(a) [bending] = 0.121  
sqrt(a) [torsion] = 0.091  
Kf = 2.808  
Kfs = 2.048
```

```
#--- Solving for n using yielding criterion ---#  
Se = 17.706  
Kf = 2.808  
yielding: n = 73.398
```

```
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Point M  
-----
```

```
Stresses:  
Ma = 201.309  
Mm = 0.000
```

Ta = 0.000
Tm = 199.580

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.791
kc = 1.000
Se = 17.706

Stress Concentrations
Kt = 2.140
Kts = 3.000
r = 0.049
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.737
Kfs = 2.417

#--- Solving for n using Goodman criterion ---#
Se = 17.706
Kf = 1.737
Goodman: n = 52.091

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.791
kc = 1.000
Se = 17.706

Stress Concentrations
Kt = 2.140
Kts = 3.000
r = 0.049
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.737
Kfs = 2.417

#--- Solving for n using yielding criterion ---#
Se = 17.706
Kf = 1.737
yielding: n = 82.512

Point N

Stresses:
Ma = 207.601
Mm = 0.000
Ta = 0.000
Tm = 0.000

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.791
kc = 1.000
Se = 17.706

Stress Concentrations
Kt = 1.700

```

Kts = 1.500
r = 0.245
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.562
Kfs = 1.422

#--- Solving for n using Goodman criterion ---#
Se = 17.706
Kf = 1.562
Goodman: n = 78.567

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.791
kc = 1.000
Se = 17.706

Stress Concentrations
Kt = 1.700
Kts = 1.500
r = 0.245
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.562
Kfs = 1.422

#--- Solving for n using yielding criterion ---#
Se = 17.706
Kf = 1.562
yielding: n = 195.240

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Point 0
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Stresses:
Ma = 161.467
Mm = 0.000
Ta = 0.000
Tm = 0.000

Endurance Limit
S'e = 26.500
ka = 0.845
kb = 0.760
kc = 1.000
Se = 17.017

Stress Concentrations
Kt = 1.700
Kts = 1.500
r = 0.315
sqrt(a) [bending] = 0.121
sqrt(a) [torsion] = 0.091
Kf = 1.576
Kfs = 1.430

#--- Solving for n using Goodman criterion ---#
Se = 17.017
Kf = 1.576
Goodman: n = 205.543

```

Endurance Limit

$S'_e = 26.500$

$k_a = 0.845$

$k_b = 0.760$

$k_c = 1.000$

$S_e = 17.017$

Stress Concentrations

$K_t = 1.700$

$K_{ts} = 1.500$

$r = 0.315$

$\sqrt{a} \text{ [bending]} = 0.121$

$\sqrt{a} \text{ [torsion]} = 0.091$

$K_f = 1.576$

$K_{fs} = 1.430$

#--- Solving for n using yielding criterion ---#

$S_e = 17.017$

$K_f = 1.576$

yielding: $n = 531.464$

Point P

Stresses:

$M_a = 69.200$

$M_m = 0.000$

$T_a = 0.000$

$T_m = 0.000$

Endurance Limit

$S'_e = 26.500$

$k_a = 0.845$

$k_b = 0.763$

$k_c = 1.000$

$S_e = 17.079$

Stress Concentrations

$K_t = 2.700$

$K_{ts} = 2.200$

$r = 0.062$

$\sqrt{a} \text{ [bending]} = 0.121$

$\sqrt{a} \text{ [torsion]} = 0.091$

$K_f = 2.142$

$K_{fs} = 1.878$

#--- Solving for n using Goodman criterion ---#

$S_e = 17.079$

$K_f = 2.142$

Goodman: $n = 330.191$

Endurance Limit

$S'_e = 26.500$

$k_a = 0.845$

$k_b = 0.763$

$k_c = 1.000$

$S_e = 17.079$

Stress Concentrations

$K_t = 2.700$

$K_{ts} = 2.200$

$r = 0.062$

$\sqrt{a} \text{ [bending]} = 0.121$


```
sqrt(a) [torsion] = 0.091  
Kf = 2.142  
Kfs = 1.878
```

```
#--- Solving for n using yielding criterion ---#  
Se = 17.079  
Kf = 2.142  
yielding: n = 850.648
```