

Description	Symbol	Unit	Case 1	Case 2
Bolt Diameter	d	mm	20	20
Bolt Preload	F_bpl	N	2,000	5,000
Applied Tensile Force	F_tens	N	15,000	20,000
Applied Bending Moment	M_bend	N.mm	350,000	500,000
Bolt Cross Section Area	A_CS	mm^2	314	314
Tensile Stress due to bolt preload	Stress_bpl	MPa	6	16
Tensile Stress due to applied tension	Stress_tens	MPa	48	64
Tensile Stress due to applied bending moment	Stress_bend	MPa	446	637
von-Mises Stress (Hand Calculation)	Stress_vms	MPa	499.7	716.2
von-Mises Stress (FEA)	Stress_FEA	MPa	494.3	701.6
Difference	Diff	%	1.10	2.08

# How To Do Stress Analysis Manual Calculations

**Michael Seilmaier**



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