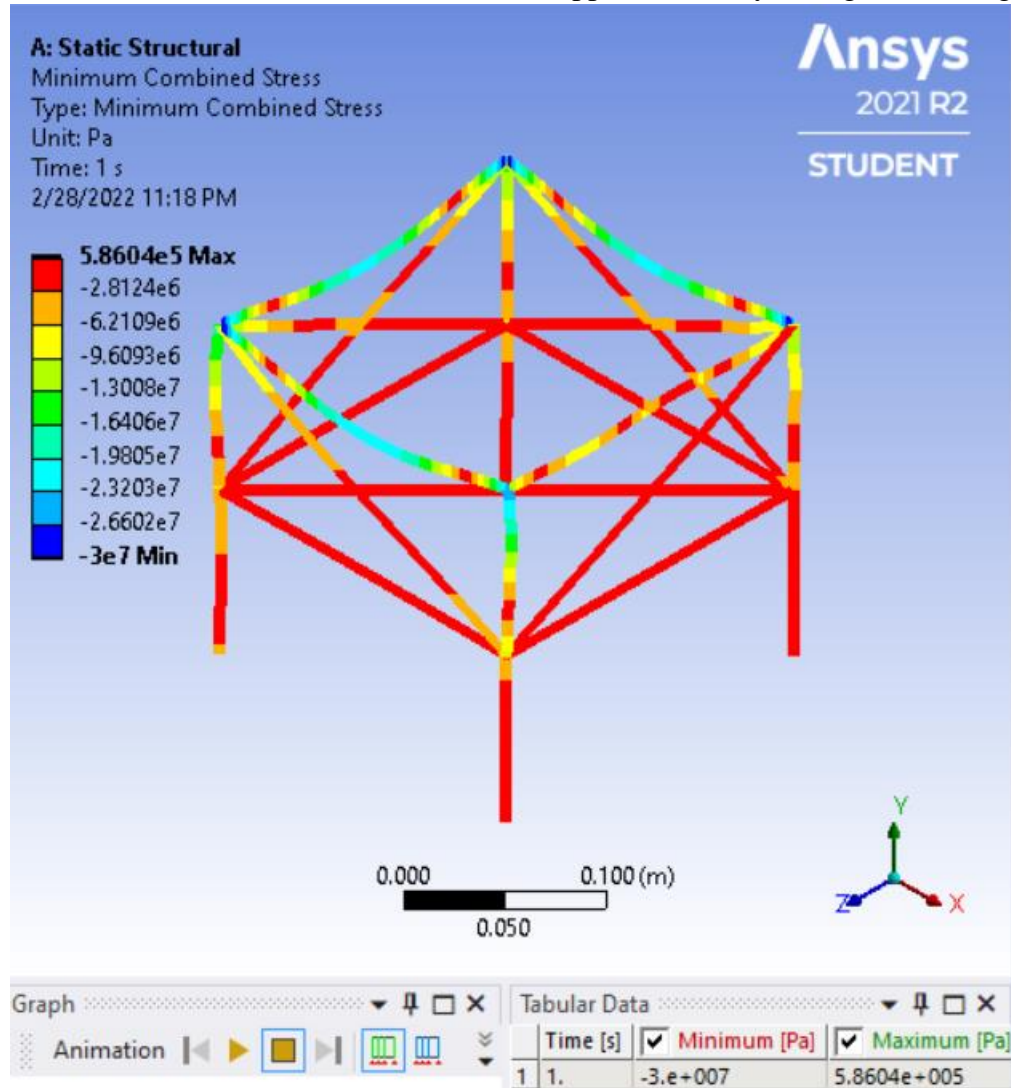


Assignment 2 – Failure and Stress Analysis of a Simple Structure

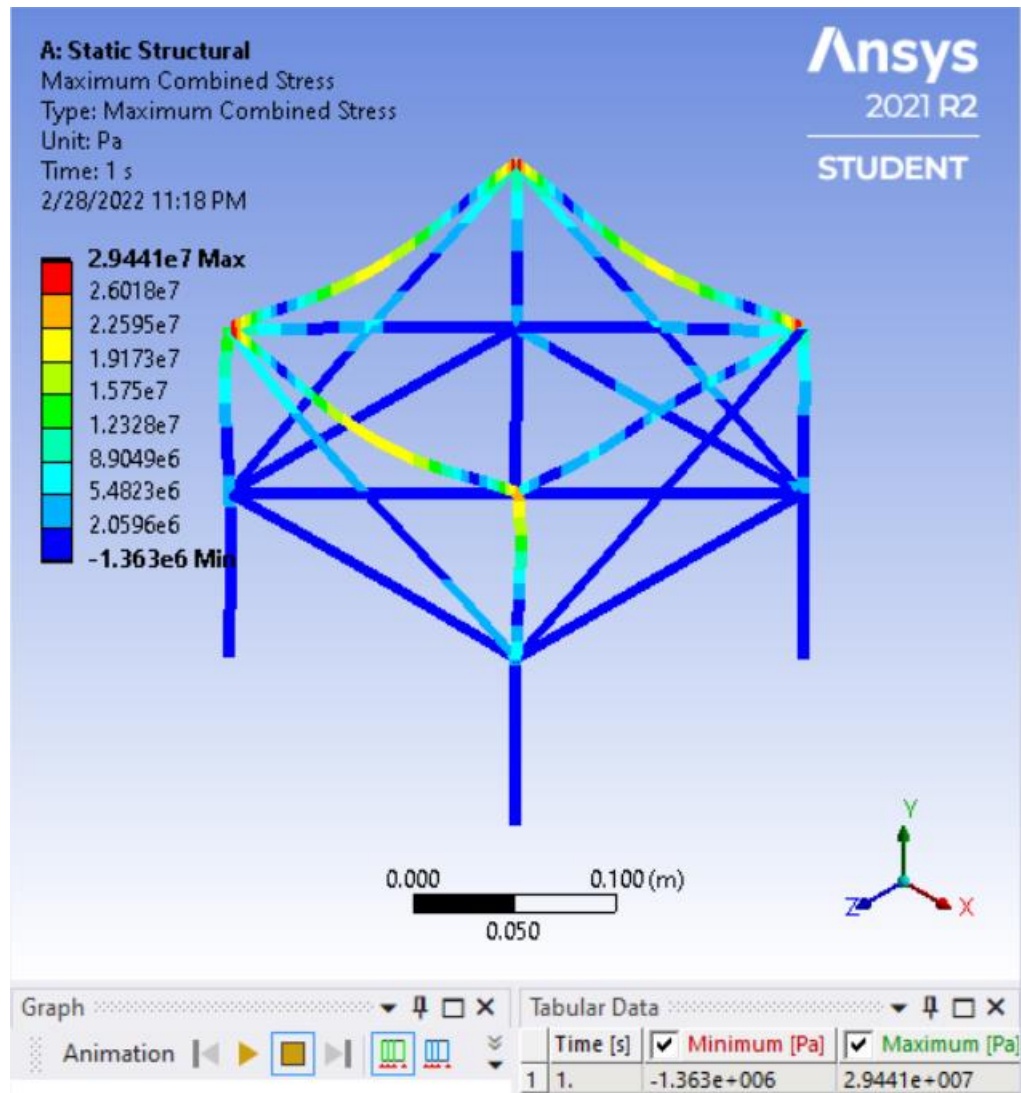
- (a) The maximum load that the structure can support without yielding or buckling is 107.67N



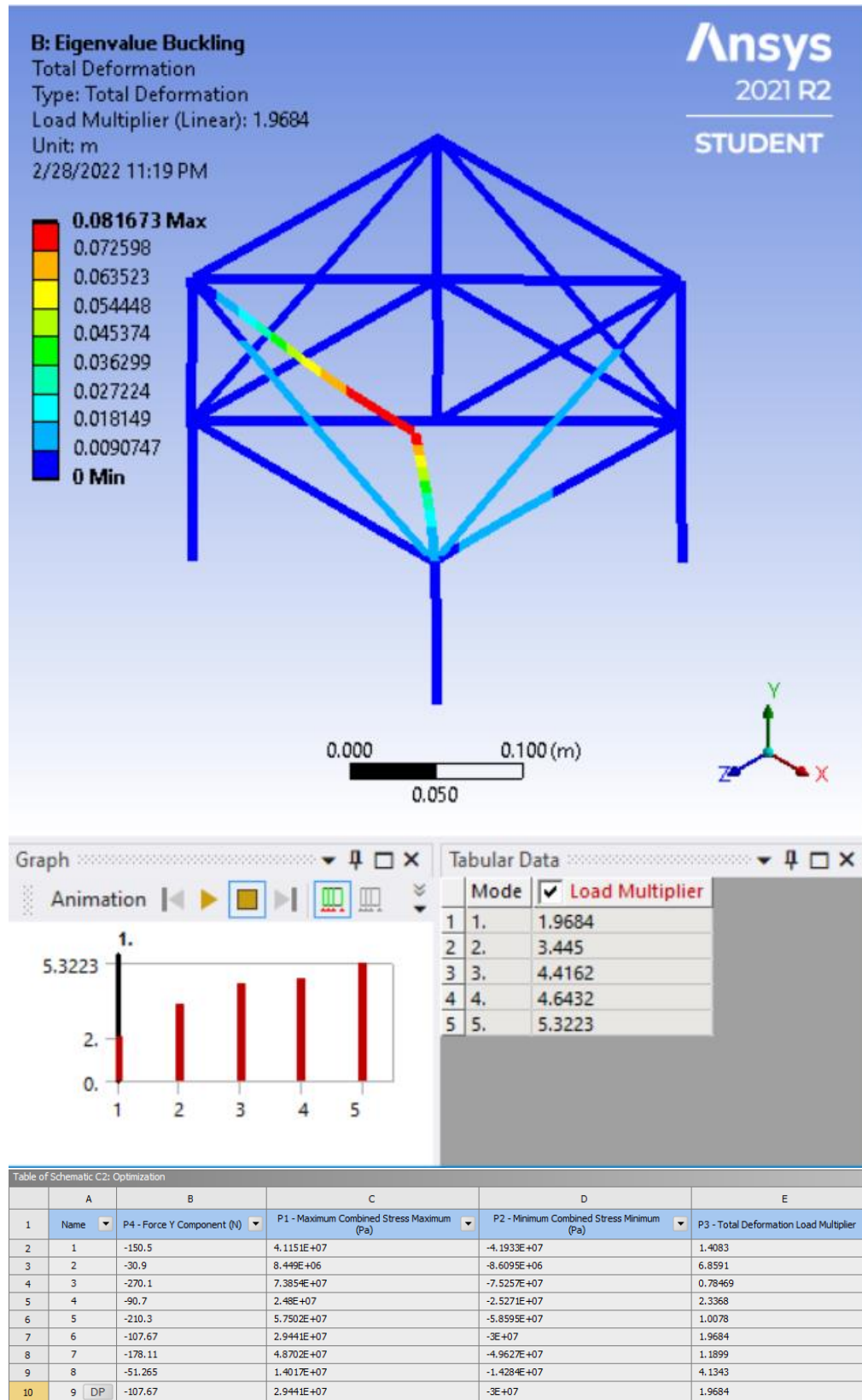
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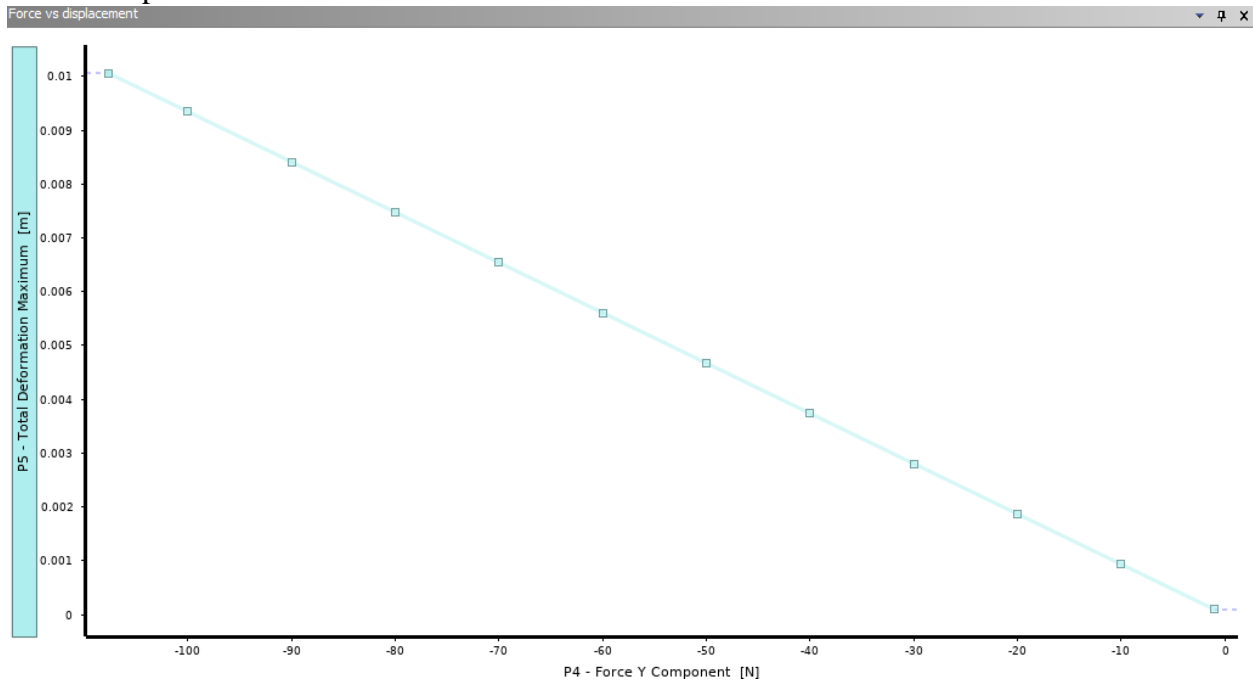
(b)

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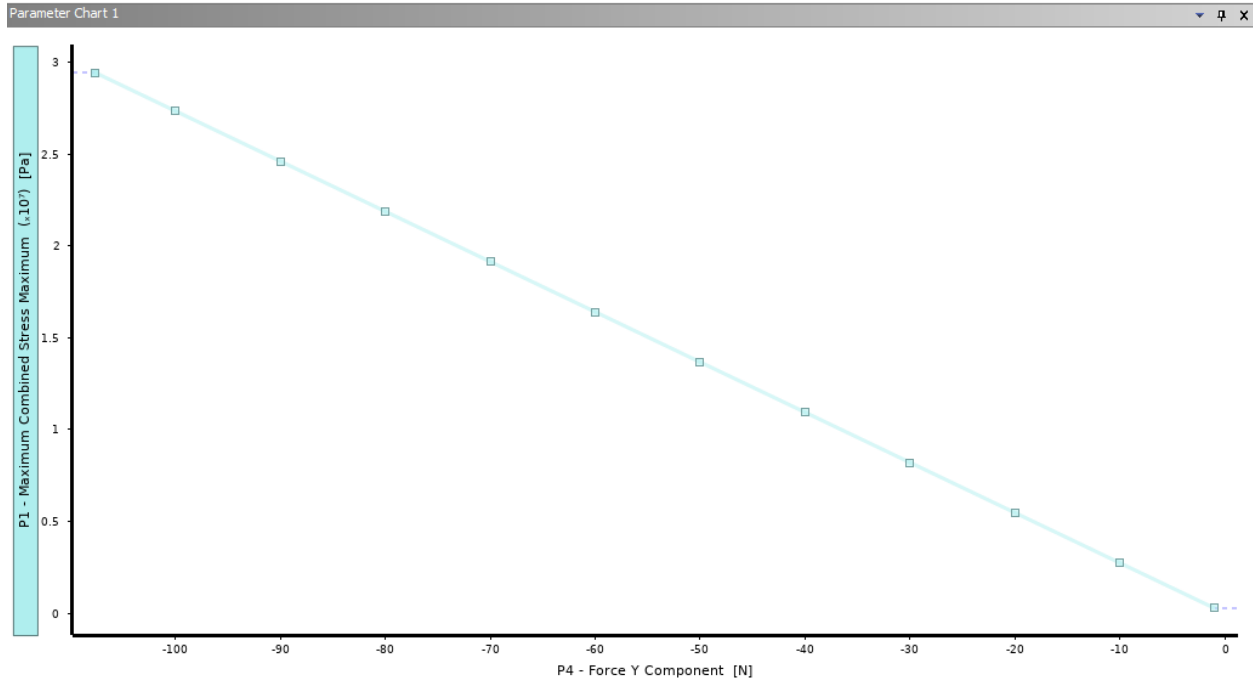
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(c) As the force decreases the total displacement decreases , following a proportional relationship



(d) As the force decreases the Maximum Tensile Stress decreases , following a proportional relationship



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(e) As the force increases the Maximum Compressive Stress increases , following a proportional relationship

