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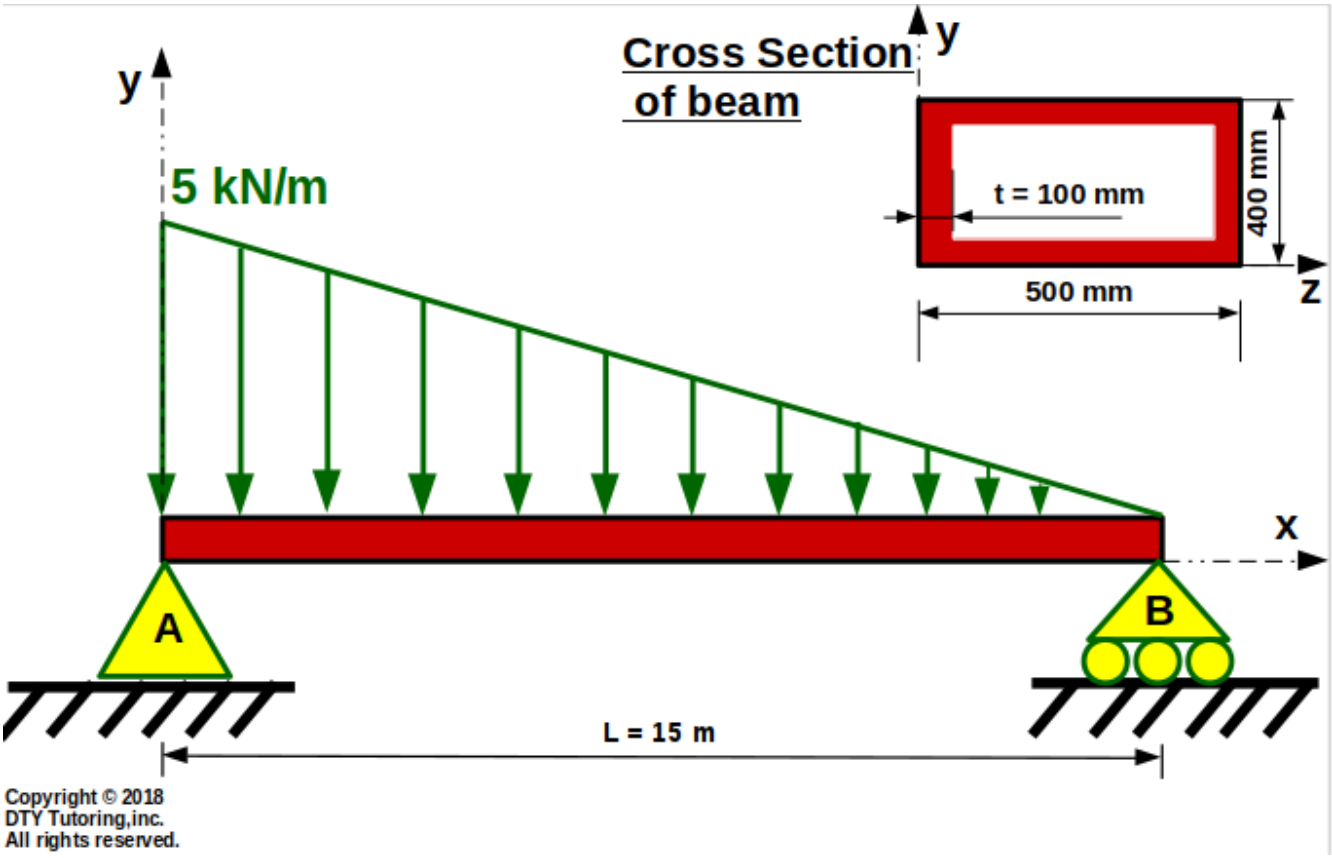
This simply supported beam is supported by a pin at A , a roller at B, and has a triangular distributed load acting throughout the entire span. Cross-section dimensions of the beam is given. Compute the maximum flexural tensile and compressive stresses.



Answers (refer to solutions for detail)

$\sigma_{MAX(C)} = \sigma_{MAX(T)} = 5{,}851$ ksi