

Two rigid elements are connected with a hinge at point c with a rotational spring with a constant stiffness of k. The entire system is under a compressive load of P at the end B, supported by a roller. By increasing the compressive load, the system will buckle.

- a) Determine the total potential energy of the system.
- b) Determine the primary and secondary paths.
- c) Check the paths in terms of being stable or unstable.







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