

5) Reaction, Force can be decoupled on a basis (projection)

SOLUTION

Research Object: 1 rigid body (beam)

Body was fixed: a) A - fixed -> Rx, Ry, Ma -?

- b) A sliding support -> Ry, Ma -?
 - B ideal beam (link) -> Rx ?
- c) A 2 sliding (along x and y axes) -> Ma -?

B - pin support (hinge) -> Rx, Ry - ?

Force Analysis: a) $R_{2A} = P_{3}$ $P_{4} = P_{5}$ $P_{5} =$

Solution:

a) 2: Px+F9 +Rn=0 - (Px) M3:-M - 2Py +0,5 F9 (M) y: Py+Ry=0=)(Ry)