

Problem 1a.1

Member ABC is a rigid bar and CD is a short link. Bar ABC is supported by a rocker at B and is **pinned** to a slider block at A that is free to slide along the diagonal shaft. Bar CD is pinned to the wall bracket at D and pinned to bar ABC at C . A couple moment acts on bar ABC near the pin at B . In this case you may neglect the self weight of the bars.

- Draw a complete Free Body Diagram (FBD) for the two connected bars (ABC and CD) combined and then for each individual bar.
- State the number of unknowns associated with each FBD. Unknowns can be forces, couple moments, distances, angles, etc.
- State whether each FBD is **STATICALLY DETERMINATE** or **NOT STATICALLY DETERMINATE**. Also state whether it is **STABLE** or **UNSTABLE**.

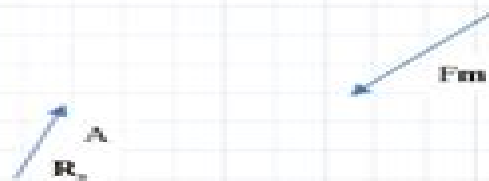
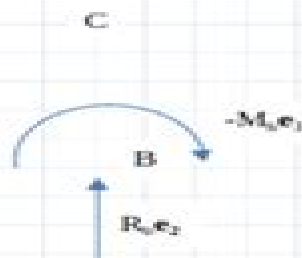


a)

$$F = 2.5 \text{ kN}$$

$$M = 4 \text{ kN}\cdot\text{m}$$

$$m = -e_1 \cos(60^\circ)$$



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JL Elias



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Catalogue of the Officers and Students Brown University, 1928 Catalogue Number Brown University, 1929

Catalogue of the University of Michigan University of Michigan, 1965 Announcements for the following year included in some vols **The Annual Catalogue of Purdue University, Lafayette, Indiana ... with Announcements for ...**

Purdue University, 1926 **Bulletin No. of the Investigation of Engineering Education** Society for the Promotion of Engineering Education (U.S.). Board of Investigation and Coordination, 1928 **Catalogue** Howard University, 1918

Industrial Management ,1926 **The Canadian Engineer ...** ,1927 **Metallurgist** ,1925 **Catalogue of the Officers and Students of Howard University, District of Columbia** Howard University, 1919 *University of Texas Bulletin* ,1928 Workmen's Compensation Problems International Association of Industrial Accident Boards and Commissions, 1929 *The International Conference "Problems of Emergency Situations" (PES 2025)* Alexey

Vasilchenko, Andrii Kondratiev, Evgeniy Rybka, Mykola Surianinov, Nina Rashkevich, Yurii Otrosh, 2025-11-10 Selected peer reviewed full text papers from the International Scientific Applied Conference Problems of Emergency Situations PES 2025
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