

MyWriterMaster
Freelance Academic Writing



MyWritingMaster

Expert Qualification Test

Physics

We are glad to offer you this EQT to test your subject matter depth and word doc formatting skills before taking you in our freelance expert writing team.

You will be judged on these aspects

- 1. Plagiarism and referencing:** Plagiarism (Copy pasting from external sources) is a strict offense and will result in cancellation of your solution straight away. Please note that all the assignments undergo a plagiarism test using Turnitin software and a content review from our expert reviewers before sending it to the client.
- 2.8 word doc formatting.**
- 3. Relevant content:** The solution should be to the point and as per the questions asked.
- 4. Written English language:** Your solution should have correct grammar and sentence formation etc.
- 5. Commitment to word limits and deadline.**

If you have any doubts regarding the above 4 points please refer <http://mywritingmaster.in/writing-methodology/>

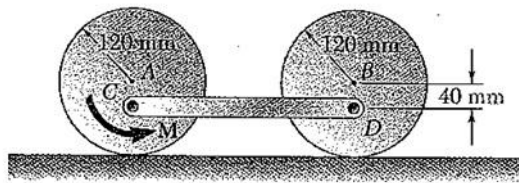
Start

Question 1

Two uniform disks A and B , each of mass 2 kg , are connected by a 2.5 kg rod CD as shown. A counterclockwise couple $M = 2.25\text{ N}\cdot\text{m}$ is applied to disk A as shown.

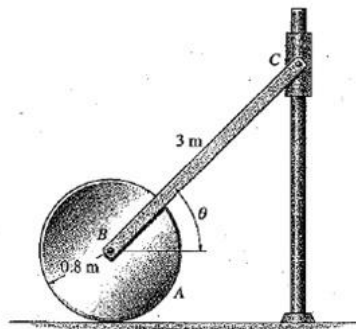
Knowing that the disks roll without slipping, determine

- The acceleration of the center of each disk.
- The horizontal component of the force exerted on disk B by pin D .



Question 2

The system consists of 20.4 kg disk A , 4.1 kg cylinder rod BC , and a 1 kg smooth collar C . If the disk rolls without slipping determine the velocity of the collar at the instant $\theta = 30^\circ$. The system is released from rest when $\theta = 45^\circ$.



End