#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu

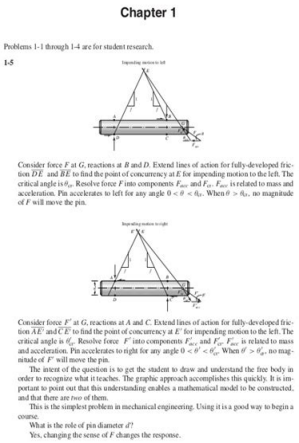
wtf this great ebook for free?!

#Che Salsa

My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks



Chapter 1

Problems 1-1 through 1-4 are for student research.

1-5

Consider force F at G, reactions at B and D. Extend lines of action for fully-developed friction $\overline{DE}$ and $\overline{BE}$ to find the point of concurrency at E for impending motion to the left. The critical angle is θ_{cr}. Resolve force F into components F_{acc} and F_{pin}. F_{acc} is related to mass and acceleration. Pin accelerates to left for any angle $0 < \theta < \theta_{cr}$. When $\theta > \theta_{cr}$, no magnitude of F will move the pin.

Consider force F' at G, reactions at A and C. Extend lines of action for fully-developed friction $\overline{AE'}$ and $\overline{CE'}$ to find the point of concurrency at E' for impending motion to the left. The critical angle is θ'_{cr}. Resolve force F' into components F'_{acc} and F'_{pin}. F'_{acc} is related to mass and acceleration. Pin accelerates to right for any angle $0 < \theta' < \theta'_{cr}$. When $\theta' > \theta'_{cr}$, no magnitude of F' will move the pin.

The intent of the question is to get the student to draw and understand the free body in order to recognize what it teaches. The graphic approach accomplishes this quickly. It is important to point out that this understanding enables a mathematical model to be constructed, and that there are *two* of them.

This is the simplest problem in mechanical engineering. Using it is a good way to begin a course.

What is the role of pin diameter d?

Yes, changing the sense of F changes the response.