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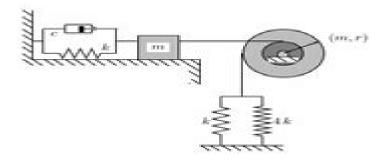
1 Free Vibration of Single Degree-of-freedom Systems

Problem 1:

In the figure, the disk and the block have mass m and the radius of the disk is r.

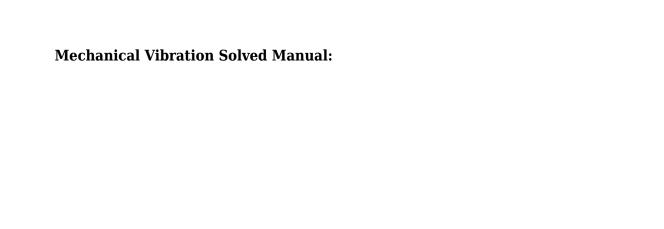
- a) Find the equations of motion for this system.
- b) What are the natural frequency and damping ratio of the system in terms of m, c, and k?
- c) If the block is displaced 18 cm to the right and released from rest find the resulting angular displacement of the disk with

$$m = 3 \text{ kg}$$
, $r = 9 \text{ cm}$,
 $k = 21 \text{ N/m}$, $c = 63 \text{ N-s/m}$,



Mechanical Vibration Solved Manual

M Woodhall



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