#### **ME370: ADAMS LAB**

# Department of Mechanical Engineering, IIT Bombay



## **Session 2 Report**

Group / Section: A8
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Roll Number: 200020023

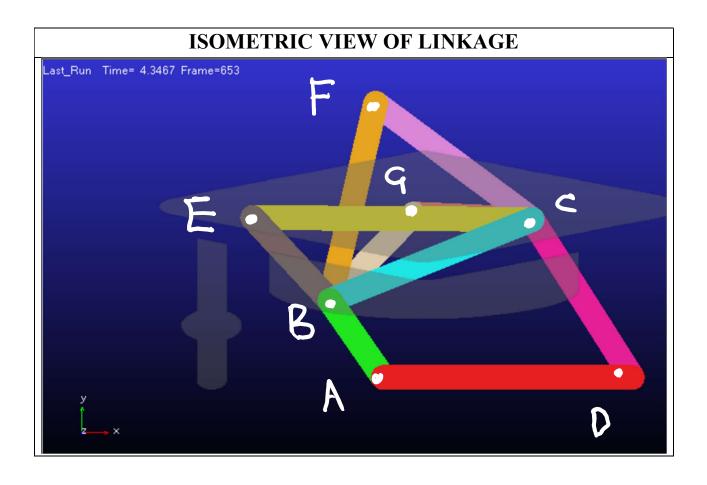


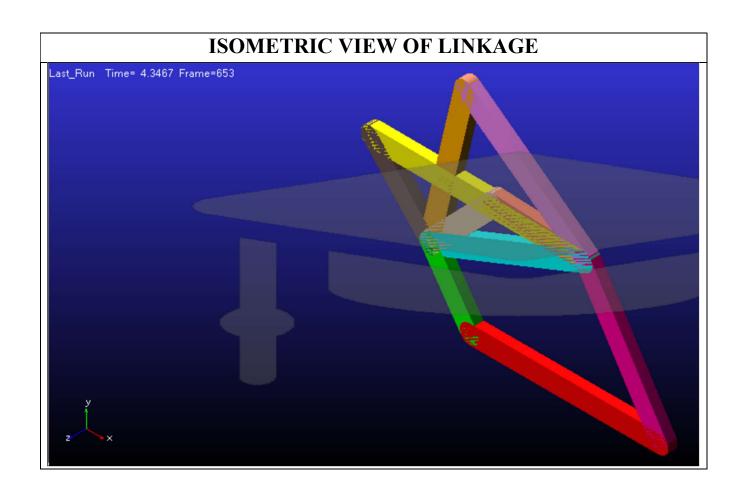
**Date:** January 30,2023

## **Given Information**

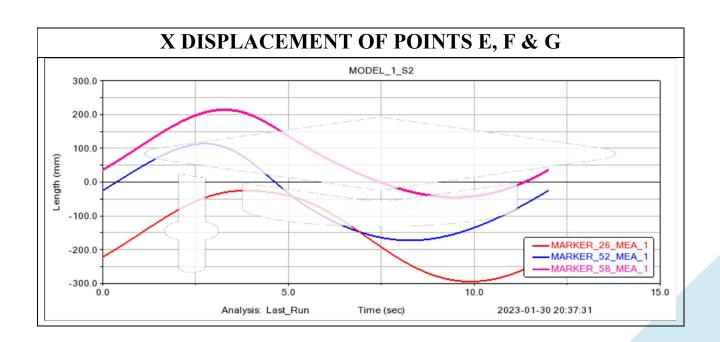
	Lengths					
Roll Number	BE	CE	BF	CF	BG	CG
200020023	182	449	325	313	193	191

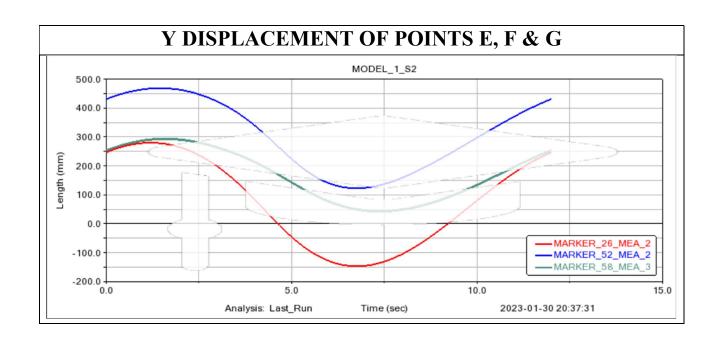
There was no modification required for the lengths BE, BF and BG.

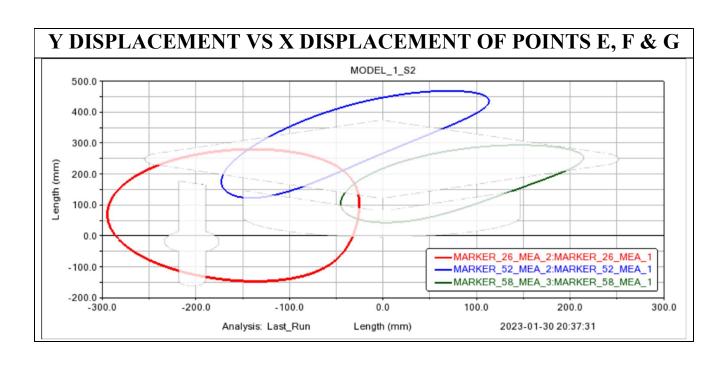




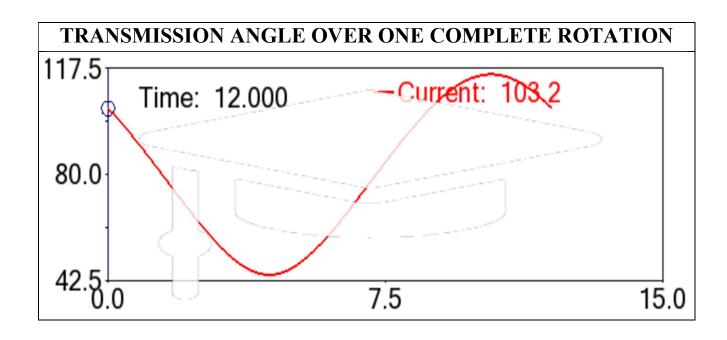
# **Question 1 (Coupler Curves)**



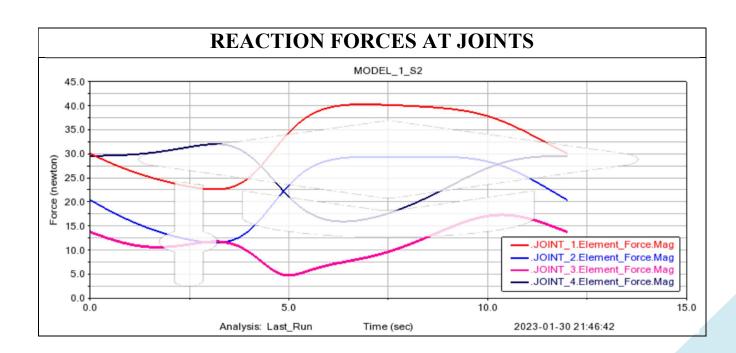




## **Question 2 (Transmission Angle)**



## **Question 3 (Reaction Forces at Joints)**



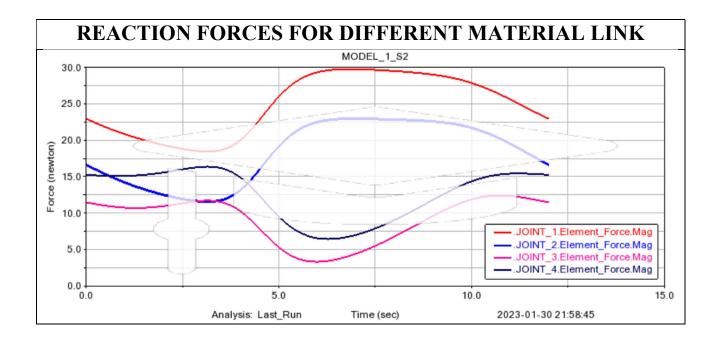
#### **RESULT:** (Most Sturdy Revolute Joint)

The graph with highest peak corresponds to the sturdiest joint.

Joints A, B, C, D correspond to the joints 1,2, 3 and 4 in the above graph.

Order of Sturdiness: A>D>B>C

#### **Question 4 (Forces for Different Materials)**



#### **RESULT:** (Most Sturdy Revolute Joint)

The materials of the links AB, BC, CD and DA correspond to Copper, Steel, Magnesium and Titanium respectively.

Order of Sturdiness: A>D>B>C

# **Question 5 (Spatial 4-Bar Linkage)**

