

BMA4723 VEHICLE DYNAMICS

Assignment 8

by

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Chapter Description

- Aims
 - To analyse the motions of the vehicle on the slippery road
- Expected Outcomes
 - Students are able to determine the factors that can effect the motion of the vehicle on the slippery road.
 - Students are able to give opinion on how to prevent the vehicle from skidding during traction on the slippery road.
- References
 - M.Abe, Vehicle Handling Dynamics Theory and Application, Second Edition, Published by Elsevier Ltd, 2015
 - Thomas D.Gillespie, Fundamental of Vehicle Dynamics, Published by Society of Automotive Engineers

Assignment 8

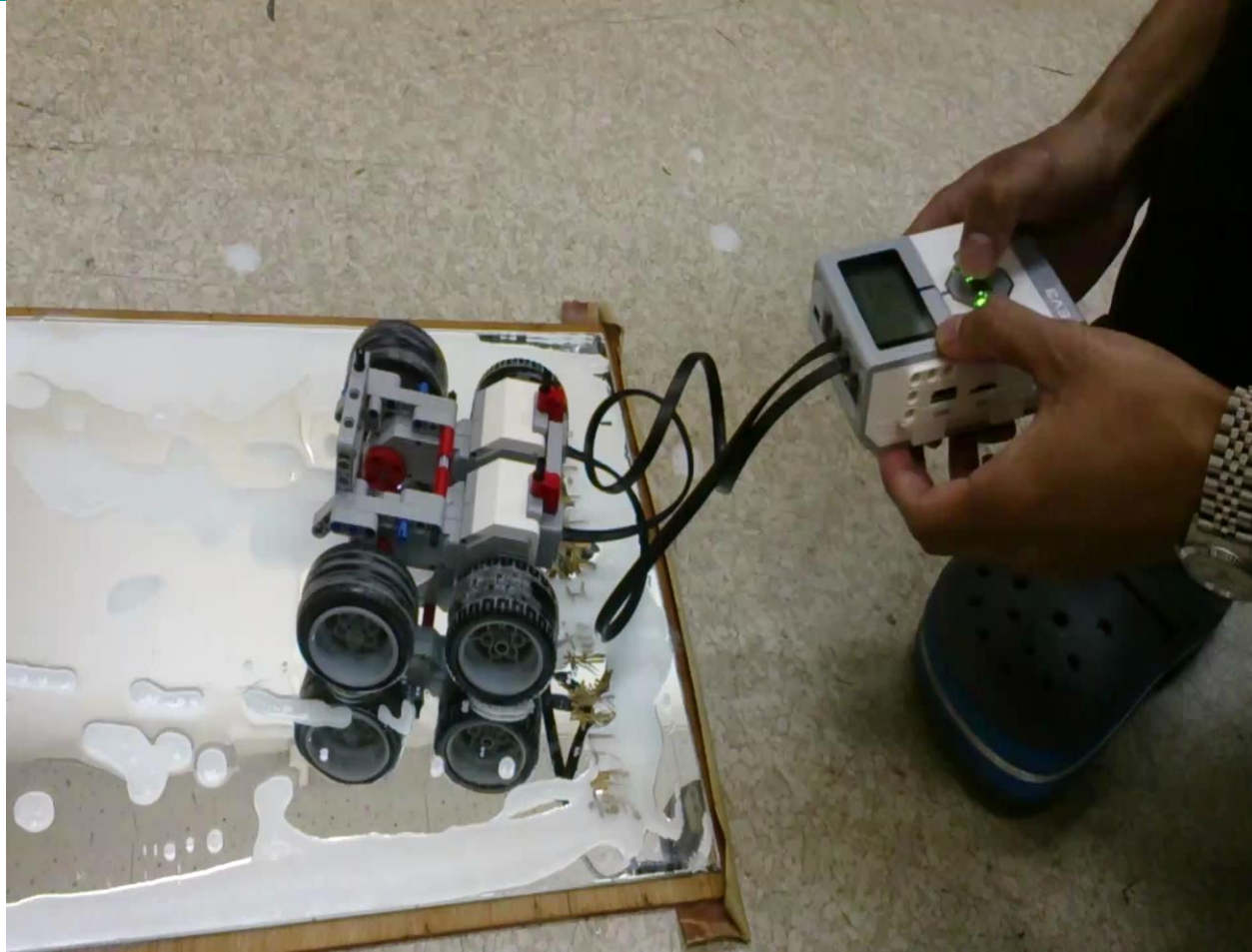


Fig.1 Experiment of the vehicle motion on the slippery surface

Assignment 8

Fig 1 shows the vehicle is accelerating on the slippery road surface. The video of the vehicle motion during traction on the slippery can be viewed in the file “Assignment 8 (video)”. From this video, in your opinion, how to prevent the vehicle from sliding during traction on the slippery road surface?

Vehicle Dynamics

Chapter 4

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