

BMA4723 VEHICLE DYNAMICS

Assignment 7

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Assignment Description

- Aims
 - To determine anti-lock braking system (ABS) can improve braking performance.
- Expected Outcomes
 - Students are able to explain how ABS can improve the safety of the vehicle.
- 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



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Figure 1 Rotational speed of the tire and the longitudinal velocity of the vehicle



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Figure 1 shows the rotational speed of the tire and the longitudinal velocity of the vehicle. From Fig.1,

- a) Explain how this phenomenon can be occurred?
- b) In your opinion, how to prevent the tire from slip during braking?





Vehicle Dynamics

Chapter 5

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