

GROUND VIBRATIONS FROM ACCELERATING AND BRAKING ROAD VEHICLES

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SUMMARY

The problem of generation of ground vibrations by accelerating and braking road vehicles is considered theoretically for vehicles accelerating (decelerating) with a constant acceleration α from rest to a constant speed, or braking to a stop from a constant speed. According to the low-frequency approximation considered, an accelerating or braking vehicle of mass M is modelled as a point horizontal traction force $F_x = \alpha M$ applied to the ground and moving along with the vehicle. Frequency spectra of the vertical component of the ground vibration velocity are investigated using the Green's function method for different values of acceleration, final (initial) speed and other parameters.

According to the survey of vibration nuisance from road traffic undertaken by the UK Transport Research Laboratory [1], among the most annoying mechanisms of traffic-induced ground vibrations are: 1) vehicles accelerating and braking - respectively 49.7% and 30.2% of the respondents, and 2) damaged or bumpy road surfaces - 39.4% of the respondents. However, despite the reported significance of ground vibration radiation caused by accelerating or braking, there is no adequate theoretical analysis of vibrations from accelerating or braking vehicles. The existing literature on elastic wave radiation by forces moving at nonconstant trans-Rayleigh speeds along a free surface of an elastic half space [2] is not directly applicable to the case of road-traffic-induced ground vibrations where vehicle speeds are invariably much lower than Rayleigh wave velocities. Note in this connection, that trans-Rayleigh train speeds are a reality and have important implications for generation of ground vibrations [3].

In this paper we consider generation of ground vibrations by vehicles accelerating at constant acceleration α from rest to a constant speed v , or braking with constant acceleration $-\alpha$ from v to a complete stop. It should be emphasised that the main mechanism of ground vibration generation by accelerating or decelerating vehicles is the action of horizontal traction forces which are applied from tyres to the ground only during the time of accelerating or braking (the contribution of normal load forces is relatively small for speeds and accelerations typical for road traffic).

Being interested only in the low-frequency ground vibrations typical of traffic-induced mechanisms of generation, we model a vehicle as a point load moving along the surface either with acceleration or deceleration (Fig.1). The low-frequency approximation assumes that the shortest wave-lengths of the generated ground vibration spectra are larger than the dimensions of the vehicle. This is usually satisfied for all frequencies of traffic-induced ground vibration spectra, which have an upper limit around 30 Hz.

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Table of Contents Braking Of Road Vehicles Ime Conference

1. Understanding the eBook Braking Of Road Vehicles Ime Conference
 - The Rise of Digital Reading Braking Of Road Vehicles Ime Conference
 - Advantages of eBooks Over Traditional Books
2. Identifying Braking Of Road Vehicles Ime Conference
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Braking Of Road Vehicles Ime Conference
 - User-Friendly Interface
4. Exploring eBook Recommendations from Braking Of Road Vehicles Ime Conference
 - Personalized Recommendations
 - Braking Of Road Vehicles Ime Conference User Reviews and Ratings
 - Braking Of Road Vehicles Ime Conference and Bestseller Lists

5. Accessing Braking Of Road Vehicles Ime Conference Free and Paid eBooks
 - Braking Of Road Vehicles Ime Conference Public Domain eBooks
 - Braking Of Road Vehicles Ime Conference eBook Subscription Services
 - Braking Of Road Vehicles Ime Conference Budget-Friendly Options
6. Navigating Braking Of Road Vehicles Ime Conference eBook Formats
 - ePub, PDF, MOBI, and More
 - Braking Of Road Vehicles Ime Conference Compatibility with Devices
 - Braking Of Road Vehicles Ime Conference Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Braking Of Road Vehicles Ime Conference
 - Highlighting and Note-Taking Braking Of Road Vehicles Ime Conference
 - Interactive Elements Braking Of Road Vehicles Ime Conference
8. Staying Engaged with Braking Of Road Vehicles Ime Conference
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Braking Of Road Vehicles Ime Conference
9. Balancing eBooks and Physical Books Braking Of Road Vehicles Ime Conference
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Braking Of Road Vehicles Ime Conference
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Braking Of Road Vehicles Ime Conference
 - Setting Reading Goals Braking Of Road Vehicles Ime Conference
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Braking Of Road Vehicles Ime Conference
 - Fact-Checking eBook Content of Braking Of Road Vehicles Ime Conference
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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