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and traffic data to
estimate roughness-
related fuel
consumption in relation
to pavement material
and structure. •A
sample case study
shows a significant
impact on fuel

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consumption due to roughness, with an increase in consumption of 30,000 gallons of fuel per mile over a 14-year test period.

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Impact of Pavement

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Deflection on Fuel

Consumption Using

Energy Dissipation ...

These approaches

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assume the pavement is nondeformable with a certain random roughness level. In this paper, a pavement-vehicle interaction model is developed that can accommodate both road roughness and the deflection of rigid pavement. A quarter-car ...

**Impact of Pavement
Roughness and
Deflection on Fuel ...**

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The CSHub found that roughness alone contributed to the consumption of an additional 30,000 gallons per mile for the representative road section over the study period, as shown in the figure. This equates to the cumulative release of 300 tons of CO₂ per mile of pavement.

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Roughness and Fuel

Consumption:

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Roughness And
Executive Summary

Request PDF | On Jul 16, 2018, I. Zaabar and others published Evaluation of fuel consumption models for pavement surface roughness effect | Find, read and cite all the research you need on ...

Evaluation of fuel consumption models for pavement surface ...

In addition to affecting

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ride comfort, roughness can have a significant effect on fuel consumption. “The rougher a pavement is, the more energy dissipation there is in the shock absorber system of a vehicle,” explains Gregory. “A vehicle must then consume more fuel to overcome this additional energy dissipation.

Paving sustainably |

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Roughness And

MIT News

Pavement roughness

affects rolling

resistance and thus

vehicle fuel

consumption. When a

vehicle travels at

constant speed on an

uneven road surface,

the mechanical work

dissipated in the

vehicle's suspension

system is compensated

by vehicle engine

power and results in

excess fuel

consumption. This

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dissipation depends on both road roughness and vehicle dynamic characteristics.

Roughness-Induced Pavement-Vehicle Interactions: Key ...

Pavement roughness is generally defined as an expression of irregularities in the pavement surface that adversely affect the ride quality of a vehicle (and thus the user).

Roughness is an

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important pavement characteristic because it affects not only ride quality but also vehicle delay costs, fuel consumption and maintenance costs.

The World Bank found road roughness to be a primary factor in the analyses and trade-offs involving road quality vs. user cost (UMTRI, 1998{{1}}).

Roughness - Pavement

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Roughness And

Interactive

"Roughness" can be defined as irregularities of pavement surface that affect driver safety and increase user costs, including fuel consumption, repair and maintenance, depreciation, and tire costs.

**(PDF) Effect of
Pavement
Roughness on User
Costs**

The model showed

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pavement surface texture has an effect on fuel consumption only for heavier trucks. For example, a 1 mm decrease in mean profile depth will result in decrease in fuel consumption of 2.25 % and 1.5 % at 56 and 88 km/h (35 and 55 mph) speeds, respectively.

**EFFECT OF
PAVEMENT
CONDITIONS ON
FUEL**

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Roughness And

CONSUMPTION, TIRE

...Fuel Consumption

The energy consumed during the construction phase was

approximately 8 TJ

(35% of the total

consumption). In the

maintenance phase,

the energy

consumption was less

than 3 TJ (13%). The

energy consumption

increased to 27 TJ/km

in a life cycle (40

years) by using

concrete pavement

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instead of asphalt pavement.

Energy consumption and environmental impact of rubberized

...

Pavement roughness would affect the running of vehicle movement, and thus possibly impact fuel consumption and vehicle emissions, the numerical relationships and analytical steps of which are, however,

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not yet well studied.

Fuel Consumption

Estimating Light-Duty Vehicle Emission Factors using ...

In general, for heavy vehicles at slow speeds and high temperatures, pavement stiffness can dominate the pavement-vehicle-interaction (PVI)-related excess fuel consumption.

Some work remains to compare the strengths and compatibility of

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Cshuo Mlt

the various peer-reviewed PVI models, but it's clear that both roughness and stiffness (structural response) are important.

**FHWA Technical
Review Panel
Examines "PVI-
Related Fuel ...**

Several published research reports have shown that vehicle fuel consumption increases as pavement

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roughness increases.

The existence of such a

relation is today of

particular interest to

state departments of

transportation for use

in cost-benefit analysis

of potential highway

improvement projects.

For a variety of

reasons, however, the

results of the earlier

studies are not readily

usable in benefit

calculations.

Effect of Pavement

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Consumption

One area of study is the influence that pavement smoothness (or conversely, roughness) has on vehicle fuel consumption. The bottom line: the right pavements can reduce fuel consumption. And the right pavements – the pavements that save fuel – are asphalt. Asphalt is Smoother.

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**Asphalt Pavement
Alliance | Asphalt.
America Rides On Us**

...

Effect on Fuel Economy

- Rolling Resistance versus Fuel Economy
-10% increase in RR = 3-4% reduction in fuel economy
- At 60 mph, passenger vehicles
-1.8 to 2.4% increase in fuel economy
- WesTrack -10% reduction in IRI -4.5% reduction in fuel

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consumption 15

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Impact of Smoothness on Fuel Efficiency

Pavement roughness is recognized around the world as a key performance measure both in terms of pavement life as well as cost to the user and quality of experience. When it comes to pavement condition, rough roads typically have greater extents

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Roughness And Fast Construction

and severities of key pavement distresses including, but not limited to, cracking, potholes and rutting. When it comes to user experience and cost, rough roads impact the user in terms of their riding comfort, safety, fuel economy and vehicle ...

Roughness and IRI - Pavementrics

Robbins'and'Tran' ' ' 1!

1.% INTRODUCTION%

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1.1% Background% Ride quality! as! a measure! of! pavement roughness! plays! an! important role in users'! level of

**NCAT% Report% 15.0
2% LITERATURE% REVIEW:% THE% IMPACT
% OF ...**

The better accuracy achieved after calibration has improved the prediction of the effect of roughness on fuel consumption. The

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comparison of sensitivity analyses before and after calibration has shown that the effect of roughness on fuel consumption increased by 1.75 for the van, 1.70 for the articulated truck, 1.60 for the medium car, 1.35 for the sport utility vehicle, and 1.15 for the light truck.

**Calibration of
HDM-4m models for**

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estimating the

effect of ...

Fuel Consumption

ABSTRACT The effect of pavement type and condition (roughness) on the rolling resistance of vehicles is investigated. By means of the relation between the energy requirements and the fuel consumption of vehicles, this effect is used to predict the fuel use on different pavements.

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