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geometric alignment

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deteriorates with time,

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primarily due to the  
static and dynamic  
forces exerted by the  
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Abstract An elasto-plastic material model is proposed that can be used to simulate the cyclic deterioration of railway tracks. The model describes the envelope of the irreversible, plastic material response

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generated during a  
cyclic loading  
process, thereby  
distinguishing the  
mechanisms of  
frictional sliding and  
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compaction.

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tends to

deteriorate with time.

The objective of this

paper is to investigate

this deterioration and

to determine whether

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geometry can retard...

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Abstract.

Understanding track

geometry

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deterioration decisively influences the planning and optimisation of track maintenance and renewal works and consequently the substantial related costs (savings) each year of every railway. To understand this deterioration it must be accurately modelled, paving the

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way towards its forecasting into the future. The main aim of the present study was to model railway track geometry deterioration using multivariate statistical analysis of the variables ...

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There is also a world-wide trend towards increased pressures on rail track

infrastructure through increases in axle loads and train speeds. Such productivity and customer service driven pressures...

(PDF) Modelling rail track deterioration

*Page 17/37*

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and maintenance ...

Abstract The cost of maintaining and renewing railway tracks affected by traffic-dependent deterioration is considerable. It is important not only to have proper maintenance regimes, but also to hav...

Determining the

*Page 18/37*

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deterioration cost for  
railway tracks - J ...

Track geometry  
degradation at  
ballasted high-speed  
lines depends on  
traffic, running speed  
and axle load of  
vehicles. These  
parameters have  
been identified as key-  
factors by theoretical  
studies and  
experience of lines in

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Modelling the  
degradation  
behaviour of track  
geometry and  
development of  
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strategies has  
become a challenging  
concern for railway  
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stiffness contributes

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significantly to track deterioration, both in terms of differential track settlement and increased dynamic vehicle loading. It is thus recommended that track maintenance procedures should be used to reduce the variation of the spatial track stiffness.



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deteriorates with time,  
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trains wheels on the  
track. Deterioration of

the track's geometry  
is called track

roughness. The paper  
reports on the

outcomes of a study  
of the deterioration of

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### Deterioration of railway track on heavy haul lines

A number of factors contribute to the degradation of rail tracks, including the condition of assets (i.e. sleepers, fastenings and ballast) [9 B.

Lichtberger, Track Compendium,

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Hestra GmbH & CO,

2005], age of rails and

axle load [2 C.

Esveld, Modern

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Fröhling, "Wheel/rail

interface

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operations—applying

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technology", Veh.

Syst. Dyn., vol. 45,

no. 7-8, pp ...

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measured during  
each geometry

inspection run. The

statistical model

constructs the

relationships between

the effective

parameters and the

track deterioration

rate, while

incorporating

uncertainty arising

from environmental

factors and

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and track

deterioration > |

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railway track due to  
dynamic vehicle  
loading and spatially  
varying track stiffness.

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PhD Thesis,  
University of Pretoria,  
South Africa, 1997.

PhD Thesis,  
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Determination of  
longitudinal profile of  
railway track ...

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industry and  
academic partners,  
this work has led to a

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number of tools and techniques being developed which are now used to predict deterioration of railway wheels and rails, to optimise the vehicle track interface, to increase safety and reliability levels, reduce cost and improve performance of the railway system.

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As we examined in Section IV, deterioration or degradation is the reduction of the original quality due to use and/or environmental influences. In par. 18.2 we identified that

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three main groups of factors may be distinguished that contribute to the deterioration of railway infrastructure:

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