

## **Studying of Dynamic Parameters Impulse Impact of the Vehicle Taking into Account the Track Stiffness Variations**

Дослідження імпульсного впливу динамічних параметрів транспортного засобу з урахуванням зміни жорсткості колії

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### **Abstract**

Authors analysed the ways of descriptions of the dynamic parameters impulse impact of the rail vehicle and surveyed the features of the system “vehicle-track” modelling. Dynamic parameters of impulse impact of the rail vehicle and them influence of describing ways of the dynamic parameters of the vehicle impulse on the dynamic track deformability were examined. Finally, basic conclusions and recommendations are given.

Авторами проаналізовані способи опису імпульсного впливу динамічних параметрів рейкового транспортного засобу і розглянуті особливості моделювання системи «транспортний засіб-колія». Досліджено динамічні параметри імпульсного впливу рейкового транспортного засобу і вплив опису способів динамічних параметрів імпульсу транспортного засобу на динамічну деформованість колії. На закінчення даються основні висновки і рекомендації.

**KEY WORDS:** *dynamic parameters impulse impact, track deformability, dynamic load, dynamic rail deflection, system “vehicle-track” modelling*

динамічні параметри імпульсного впливу, деформованість колії, динамічне навантаження, динамічний прогин рейок, моделювання системи «транспортний засіб-колія»

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