



14. . . . . 2013. 5. . 8–15. -
15. *Markova O., Kovtun H., Maliy V.* Modelling train motion along arbitrary shaped track in transient regimes. *Rail and Rapid Transit*. 2015. Vol. 229(1). P. . 97–105. <https://doi.org/10.1177/0954409713501806> -
16. . . . . 2015. 2. . 79–89. -
17. *Sobolevska M., Telychko I.* assive safety of high-speed passenger trains at accident collisions on 1520 mm gauge railways. *Transport problems*. 2017. V. 12. Issue 1. . 51–62. <https://doi.org/10.20858/tp.2017.12.1.5> -
18. . . . . 2018. 1. . 20–29. <https://doi.org/10.15407/itm2018.01.020> -
19. *Ushkalov V., Mokriy T., Malysheva I., Lapina L., Pasichnik S., Bezrukavyy N.* Reduction of freight car wheel wear of 1520 mm gauge railways.. *IOP Conf. Series: Materials Science and Engineering*. 2020.V.985.012004. <https://doi:10.1088/1757-899X/985/1/012004> -
20. *Sobolevska M., Naumenko N., Gorobets D.* Development of passive protection devices for a power head of a high-speed multiple unit train at its collisions according to DSTU EN 15227. *IOP Conf. Series: Materials Science and Engineering*. 2020.V.985/012016.. <https://doi.org/10.1088/1757-899X/985/1/012016> -
21. *Markova O., Kovtun H., Maliy V.* Comparison of Articulated and Conventional Passenger Train Dynamic Characteristics at Various Motion Regimes. *Lecture Notes in Mechanical Engineering*. 2022. . 217–228. [https://doi.org/10.1007/978-3-031-07305-2\\_23](https://doi.org/10.1007/978-3-031-07305-2_23) -
22. . . . . 2022. 2. . 101–114. <https://doi.org/10.15407/itm2022.02.101> -
23. . . . . 2022. 4. . 111–120. <https://doi.org/10.15407/itm2022.04.111> -
24. *Olofsson U., Telliskivi T.* Wear, plastic deformation and friction of two rail steels – a full-scale test and a laboratory study. *Wear*. 2003. 254 (1-2). . 80–93. [https://doi.org/10.1016/S0043-1648\(02\)00291-0](https://doi.org/10.1016/S0043-1648(02)00291-0) -
25. . . . . 2009. 3. . 39–43. -
26. . . . . 2012. 1. . 38–41. -
27. *Bondarenko I., Lunys O., Neduzha L., Keršys R.* Dynamic track irregularities modeling when studying rolling stock dynamics. *Transport Means. Proceedings of the International Conference October, 2019*. . 1014–1019. -
28. . . . . 2022. 2. . 115–122. <https://doi.org/10.15407/itm2022.02.115> -
29. . . . . -73 . 2023. 2. . 84–90. <https://doi.org/10.15407/itm2023.02.084> -
30. . . . . 2023. 4. . 90–103. <https://doi.org/10.15407/itm2023.04.090> -
31. *Markova O., Kovtun H., Maliy V.* Mathematical modeling of articulated passenger train spatial vibrations. *Technical Mechanics*. 2021. 2. P. . 91–99. <https://doi.org/10.15407/itm2021.02.091> -
32. 7774:2015 . 2016-04-01. : " -
33. ", 2017. 150 . EN 12663-1:2018 . ( EN 12663-1:2010 + A1:2014, IDT). URL: [https://online.budstandart.com/ua/catalog/doc-page.html?id\\_doc=80589](https://online.budstandart.com/ua/catalog/doc-page.html?id_doc=80589) ( : 24.06.2024). -
34. EN 15227:2015 (EN 15227:2008+A1:2010, IDT). URL: [https://online.budstandart.com/ua/catalog/doc-page.html?id\\_doc=74051](https://online.budstandart.com/ua/catalog/doc-page.html?id_doc=74051) ( : 24.06.2024). -
35. *Sobolevska M., Horobets D.* The passive safety system of a high-speed multiple-unit train. *MATEC Web of Conferences* 390, 02002 (2024) <https://doi.org/10.1051/mateconf/202439002002> EOT-2023. URL: [https://www.matec-conferences.org/articles/mateconf/pdf/2024/02/mateconf\\_eot24\\_02002.pdf](https://www.matec-conferences.org/articles/mateconf/pdf/2024/02/mateconf_eot24_02002.pdf) ( : 10.07.2024). <https://doi.org/10.1051/mateconf/202439002002> -
36. . . . . 2023. 4. . 76–89. <https://doi.org/10.15407/itm2023.04.076> -
37. EN 12663-2:2018 . 2. (EN 12663-2:2010, IDT). [https://online.budstandart.com/ua/catalog/doc-page.html?id\\_doc=81572](https://online.budstandart.com/ua/catalog/doc-page.html?id_doc=81572) ( : 15.07.2024). -

15.07.2024,  
20.09.2024