
Modern all-wheel drive vehicles with independent suspension and axial loads 7,0–11,5 tons

© A.N. Werzbicki, G.O. Kotiev, A.B. Fominykh

Bauman Moscow State Technical University, Moscow, 105005, Russia

A research and analysis of the known types of advanced transport cross-country vehicles with paddle wheels and independent suspension are carried out. By comparative analysis of the existing and future transportation vehicles we identified the most promising models and technical solutions capable of providing ground transportation infrastructure, including in remote areas of the Russian Federation.

Keywords: *vehicle, wheel all-terrain vehicle, independent suspension, wishbone, the resilient member.*

Wierzbicki A.N., Ph.D, Assoc. Professor of the Wheeled Vehicles Department of Bauman Moscow State Technical University. Author of over 100 scientific papers in the field of design of wheeled and tracked vehicles. e-mail: aver@bmstu.ru

Kotiev G.O., Dr. Sci. (Eng.), Professor, Head of the Wheeled Vehicles Department of Bauman Moscow State Technical University. Author of more than 100 publication in the field of design of wheeled and track-type vehicles. e-mail: kotievgo@yandex.ru

Fominykh A.B., Ph.D, Assoc. Professor of the Wheeled Vehicles Department of Bauman Moscow State Technical University. Research interests: dynamic loading of wheeled vehicles. e-mail: fab@bmstu.ru
