



## PREDICTION OF TIRE WHEEL TRACTION - AN IMPROVED MODEL PREDICTIE DE TRACȚIUNE CU ROȚI CAUCIUCULUI - UN MODEL ÎMBUNĂTĂȚIT

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The paper presents an improved model for wheel traction prediction, continuing a previous study. The model has been improved in two aspects:  $\square\square$  in order to calculate the length of the contact patch, a pressure-sinkage type equation has been used in order to determine the soil deformation;  $\square\square$  a functional link has been established between the two phases of the calculation process (evaluation of the length of the contact patch and tire lugs penetration). The theoretical model was then compared with the experimental results and we have concluded that this improved model leads to a better fit between the calculated and experimental data.

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