
Contact pressure determination in the task of interactions of coated bodies during wear, heat emission and accounting dependence of friction coefficient on temperature

© E.A. Gubareva

Bauman Moscow State Technical University, 105005, Moscow, Russia

The circuit of contact of bodies with elastic soft coverings with the purpose of probably the greater account of the phenomena proceeding in the field of contact is simplified as much as possible. The formula for the description of nonlinear friction is offered [1]. By using this formula contact pressure is calculated.. The resource tribology and a condition of absence of catastrophic deterioration is determined.

Keywords: *coating, friction, heat generation, contact pressure.*

Gubareva E.A. (b. 1982) graduated from Lomonosov Moscow State University in 2004. Ph.D., Assoc. Professor of the Computational Mathematics and Mathematical Physics Department of Bauman Moscow State Technical University. Author 8 publications in the field of contact mechanics. e-mail: gubareva_ea@pochta.ru