Special Issue: Selected Papers from the 15th Nordic Symposium on Tribology

Contents

Editorial

S Armada and B Prakash 809

Special Issue Articles

Tribological behaviour of polymeric materials in water-lubricated contacts

A Golchin, GF Simmons, S Glavatskih and B Prakash 811

Temperature-dependent changes of physicochemical and tribological properties of acrylonitrile-butadiene rubber elastomer upon ageing in hexadecane and diethylene glycol dibutyl ether

Z Wang, M Grahn, O Antzutkin and B Prakash 826

An investigation of worn work roll materials used in the finishing stands of the hot strip mill for steel rolling

M Nilsson and M Olsson 837

The friction and wear behavior of WC coating on medical grade titanium alloys

Y Luo, L Yang, M Tian, S Ge and Q Wang 845

The rolling contact fatigue of WC/C-coated spur gears

R Michalczewski, M Kalbarczyk, W Piekoszewski, M Szczerek and W Tuszyński 850

Application of finite element method to analysis of tribological properties of aluminum oxide nano-layers

M Kubica, W Skoneczny and D Jedrzejczyk 861

Impact-abrasion wear of wear-resistant steels at perpendicular and tilted angles

V Ratia, K Valtonen and V-T Kuokkala 868

The effect of microstructure and lead content on the tribological properties of bearing alloys

V Ruusila, T Nyssönen, M Kallio, P Vuorinen, A Lehtovaara, K Valtonen and V-T Kuokkala 878

Application of the fluid–structure interaction technique for the analysis of hydrodynamic lubrication problems

M Wodtke, A Olszewski and M Wasilczuk 888

Continued…
Effects of texture patterns on hydrodynamic and mixed lubrication characteristics 898
N Imai and T Kato

Identification of stiffness and damping coefficients of hydrostatic bearing with angled injection 905
P Jolly, MA Hassini, M Arghir and O Bonneau

Experimental study of novel clutch utilizing self-locking property of belt 912
K Imado and H Nakata

Sequential simulation of thermal stresses in disc brakes for repeated braking 919
A Rashid and N Strömberg

Braking performance and influence of microstructure of advanced cast irons for heavy goods vehicle brake discs 930
M Collignon, G Regheere, A-L Cristol, Y Desplanques and D Balloy