Fatigue strength improvement of Ti alloy with DLC coating p. 3
Thick tool steel coatings with laser cladding p. 13
Numerical modeling of surface treatment by laser beam p. 23
Microstructural and tribological observations in metallic glass forming alloy layers produced by high-power lasers p. 33
Hydrogen permeation behavior in polycrystalline nickel implanted with various elements p. 43
Effect of carburizing on fatigue behaviour in a type 316 austenitic stainless steel p. 53
Microstructural evolution of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering p. 65
Ionic migration behavior in minute wiring on flexible substrate p. 75
Multilayer contacts in electrical connectors: experimental results and modelling p. 89
Contact problems between optical lenses and shrink fitter for a new type of laser microscope with a wide field of view p. 101
C-sphere strength as an indicator of rolling contact performance of silicon nitride p. 111
Numerical analysis of the physical phenomena in the working zone in the rolling process of the round thread p. 125
Optimal shape of fibers in composite structure using inverse variational principles p. 135
Analytical solution of adhesion contact for a rigid sinusoidal surface on a semi-infinite elastic body p. 145
Investigation of the temperature behaviour of sliding rubber materials p. 155
Progress on experimental and finite element studies of oblique elastic impact p. 165
Explosive pitting of 1018 steel witness plates p. 175
Numerical analysis of the influence of abrasive grain geometry and cutting angle on states of strain and stress in the surface layer of object p. 183
Efficient modelling of contact interfaces of joints in built-up structures p. 195
Domain decomposition based contact solver p. 207
Dimensional reduction for fast simulations of contact problems p. 217
Determination of potential function in contact problems p. 227
Inverse problems of plane elasticity for the determination of contact stresses p. 237
Contact problems in geomechanics focused on bumps occurrence p. 247
In situ measurement of contact area in coated surfaces p. 259
Wear assessment of tin and tin alloy coatings p. 271
Features of fretting fatigue strength/life and its mechanical considerations p. 283
Near surface modification affected by hydrogen/metal interaction p. 293
Nanoscratch evaluation of adhesive strength of Cu/PI films p. 303
Parametric simulation of SiC Schottky JBS structures p. 315
Expansion of capillary force range by probe-tip curvature p. 325
Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.