

# Contact and Rubbing of Flat Surfaces

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A Quantitative Study of the Wear Process. Proceedings of the Physical Society Section B, 1953, 66, 929-936.	0.9	16
2	REVIEW OF FRETTING CORROSION THEORY. , 0, , .		0
3	The True Contact Area Between Solids. Proceedings of the Physical Society Section B, 1954, 67, 309-312.	0.9	68
4	Friction of an Elastic Solid. Proceedings of the Physical Society Section B, 1954, 67, 89-97.	0.9	46
5	Research on Lapping (3rd. Report). Journal of the Japan Society of Precision Engineering, 1954, 20, 251-254.	0.0	0
6	Research on Lapping. (4th. Report.). Journal of the Japan Society of Precision Engineering, 1954, 20, 471-475.	0.0	0
7	An Experimental Investigation of Non-Metallic Wear. Proceedings of the Physical Society Section B, 1955, 68, 106-110.	0.9	7
8	Metal Transfer and the Wear Process. Proceedings of the Physical Society Section B, 1955, 68, 400-407.	0.9	66
9	Fretting Corrosion. Proceedings / Institution of Mechanical Engineers, 1955, 169, 1157-1172.	0.0	45
10	The stages in a process of severe metallic wear. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1956, 236, 250-264.	1.5	83
11	On the Distribution of Pressed Surface Profile (2nd Report) : Probability of Contact Yielding of Points and Penetrating Depth. Transactions of the Japan Society of Mechanical Engineers, 1956, 22, 395-401.	0.0	0
12	Surface Film Formation and Metallic Wear. Journal of Applied Physics, 1956, 27, 1057-1065.	1.1	130
13	Autocorrelation Analysis of the Sliding Process. Journal of Applied Physics, 1956, 27, 131-135.	1.1	58
14	A General Theory of the Surface Friction of Solids. Proceedings of the Physical Society Section B, 1957, 70, 431-432.	0.9	0
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17	On the Mechanism of Wear between Metal Surfaces : 1st Report, Theory of the Mechanism of Wear. Transactions of the Japan Society of Mechanical Engineers, 1957, 23, 880-885.	0.0	1
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20	The coefficients of friction and wear. Nuovo Cimento, 1958, 9, 721-730.	1.0	0
21	A review of the friction of solids. Wear, 1958, 1, 333-346.	1.5	17
22	Friction and abrasion of rubber. Wear, 1958, 1, 384-417.	1.5	236
23	The Friction of Hard Sliders on Lubricated Rubber: The Importance of Deformation Losses. Proceedings of the Physical Society, 1958, 71, 989-1001.	1.6	220
24	Wear of Cobalt Base and Stainless Materials in High Purity Water. ASLE Transactions, 1958, 1, 319-328.	0.6	0
25	On Asperity Distributions of Metallic Surfaces. Journal of Applied Physics, 1958, 29, 1168-1174.	1.1	52
26	The mechanical wear of metals. British Journal of Applied Physics, 1958, 9, 125-132.	0.7	6
27	The Load-Deformation Curve for Nylon. Journal of the Textile Institute Transactions, 1958, 49, T357-T360.	0.3	3
28	A Theory of Cutting-tool Wear and Cutting-oil Action. ASLE Transactions, 1958, 1, 131-138.	0.6	9
29	Closure to "Discussions of "An Investigation of Dry Adhesive Wear" (1959, ASME J. Basic Eng., 81, pp. 107-114).	0.1	0
30	Discussion: "Friction and Wear of Metals to 1000 C" (Kingsbury, E. P., and Rabinowicz, E., 1959, ASME J. Basic Eng., 81, pp. 107-114).	0.1	0
31	Discussion: "An Investigation of Dry Adhesive Wear" (Steijn, R. P., 1959, ASME J. Basic Eng., 81, pp. 56-65).	0.1	0
32	Discussion: "Friction and Wear of Metals to 1000 C" (Kingsbury, E. P., and Rabinowicz, E., 1959, ASME J. Basic Eng., 81, pp. 107-114).	0.1	0
33	Closure to "Discussions of "Friction and Wear of Metals to 1000 C" (1959, ASME J. Basic Eng., 81, pp. 107-114).	0.1	0
34	Discussion: "An Investigation of Dry Adhesive Wear" (Steijn, R. P., 1959, ASME J. Basic Eng., 81, pp. 56-65).	0.1	0
35	Frictional Measurements on Fibrous Materials. Textile Research Journal, 1959, 29, 451-466.	1.1	9
36	Some studies of wear and lubrication. Wear, 1959, 2, 364-393.	1.5	14
37	On Fretting Corrosion : Part 1, Nature of Fretting Corrosion. Transactions of the Japan Society of Mechanical Engineers, 1959, 25, 995-1004.	0.0	11

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38	On Fretting Corrosion : Part 2, Analysis of the Mechanism of Wear. Transactions of the Japan Society of Mechanical Engineers, 1959, 25, 1005-1010.	0.0	1
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40	Extreme-Pressure Lubrication and Wear. The Influence of Contact Stress on Metallic Wear. ASLE Transactions, 1960, 3, 165-175.	0.6	11
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43	A study of abrasive wear under three-body conditions. Wear, 1961, 4, 345-355.	1.5	393
44	Contact stress and load as parameters in metallic wear. Wear, 1961, 4, 93-110.	1.5	15
45	Single Contacts and Multiple Encounters. Journal of Applied Physics, 1961, 32, 1420-1425.	1.1	192
46	A Coefficient of Friction which increases with Increasing Load. Results with Undrawn Nylon Monofilaments, and a Theoretical Explanation. Proceedings of the Physical Society, 1962, 79, 516-534.	1.6	17
47	FRICION OF RUBBER ON GLASS PLATE. Nippon Gomu Kyokaishi, 1962, 35, 177-184.	0.0	1
48	Interaction of Sliding Metal Surfaces. Journal of Applied Physics, 1962, 33, 2152-2161.	1.1	136
49	Role of oxidation in the mild wear of steel. British Journal of Applied Physics, 1962, 13, 33-37.	0.7	104
50	Mechanism of Force Transmission Between Tire and Road. , 0, , .		8
51	Effect of surface contour on the role of plastic flow in metal friction. Wear, 1963, 6, 303-311.	1.5	1
52	Friction and deformation of nylon. II. Theoretical. Journal of Applied Polymer Science, 1963, 7, 2105-2120.	1.3	7
53	The relationship between the wear of carbon brush materials and their elastic moduli. British Journal of Applied Physics, 1963, 14, 497-505.	0.7	34
54	The friction and wear of electrographite. British Journal of Applied Physics, 1963, 14, 20-27.	0.7	18
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57	Discussion: âœ€Effect of Surface Energy on the Wear Processâœ€(Rabinowicz, E., and Foster, R. G., 1964,) Tj ETQq1,10.784314 rgBT	0.1	0
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59	MATERIALS FOR PLAIN BEARINGS. , 1964, , 173-241.		3
60	Ãœber den Gleitverschleiß ungeschmierter Oberflächen. Forschung Im Ingenieurwesen/Engineering Research, 1964, 30, 1-13.	1.0	3
61	A study of the microtopography of some surfaces by means of a friction technique. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1964, 279, 161-169.	1.5	4
62	STUDIES OF RUBBER ABRASION. I. Nippon Gomu Kyokaishi, 1964, 37, 174-183.	0.0	0
63	A model junction study of severe metallic wear. Wear, 1965, 8, 374-380.	1.5	25
64	Effect of abrasive particle size on wear. Wear, 1965, 8, 381-390.	1.5	177
65	Microtopography of Finely Ground Steel Surfaces in Relation to Contact and Wear. ASLE Transactions, 1965, 8, 100-108.	0.6	8
67	Studies of Wear and Load-Carrying Capacity in the Pin and Disk Machine. ASLE Transactions, 1965, 8, 91-99.	0.6	5
68	The Friction and Wear Behavior of Molybdenum-Tungsten-Chromium Alloys in High-Temperature Sodium Environments. ASLE Transactions, 1965, 8, 109-122.	0.6	7
69	Thermal contact conductance of nominally-flat, rough surfaces in a vacuum environment. , 1966, , .		2
70	Effect of Wear on Pivot Thrust Bearings. ASLE Transactions, 1966, 9, 257-263.	0.6	2
71	Some Aspects of the Heat of Adsorption in the Function of a Boundary Lubricant. ASLE Transactions, 1966, 9, 101-111.	0.6	101
72	The Effects of Heat-treatment on Contact Resistance of Silver Platings on Copper. Journal of the Metal Finishing Society of Japan, 1966, 17, 127-132.	0.0	0
75	Powders: Particle-Particle Interactions. Journal of Pharmaceutical Sciences, 1966, 55, 1325-1344.	1.6	53
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79	Review Paper 1: Surface Measurement. Proceedings of the Institution of Mechanical Engineers Conference Proceedings, 1967, 182, 1-6.	0.0	0
80	Predicting Bearing Performance of Filled Teflon TFE Resins. <i>Journal of Engineering for Industry</i> , 1967, 89, 182-186.	0.8	3
81	Paper 17: Basic Mechanisms of Wear. Proceedings of the Institution of Mechanical Engineers Conference Proceedings, 1967, 182, 281-292.	0.0	2
82	Friction and wear properties of rhenium. <i>Wear</i> , 1967, 10, 313-318.	1.5	11
83	Investigation into the ultimate tensile strength of laminated silage fibres. <i>Biosystems Engineering</i> , 1968, 13, 103-119.	0.4	0
84	Solids in static contact. <i>Wear</i> , 1968, 12, 225-240.	1.5	25
85	The Observation of Individual Asperity Interactions in Lubricated Point Contact. <i>ASLE Transactions</i> , 1968, 11, 176-190.	0.6	7
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88	1-The basic mechanisms of wear. <i>Tribology</i> , 1969, 2, 152-161.	0.1	12
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90	A history of research on surface texture effects. <i>Wear</i> , 1969, 13, 381-412.	1.5	34
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94	A Discrete-Continuum Approach to the Solution of the Contact of Rotating Circular Surfaces. <i>Journal of Lubrication Technology</i> , 1969, 91, 387-389.	0.1	1
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108	Effective Thermal Conductivity of Laminated Electrical Insulation Paper. Chemical Engineering, 1972, 36, 533-539,a1.	0.0	0
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111	Speculations on the theory of adhesive wear. Wear, 1972, 21, 103-114.	1.5	17
112	Wear behaviour and mechanical properties: The similarity of seemingly unrelated approaches. Wear, 1972, 21, 167-177.	1.5	14
113	Junction deformation models for asperities in sliding interaction. Wear, 1972, 20, 73-87.	1.5	33
114	Influence of roughness on wear of thermoplastic on metal pairs: A preliminary analysis. Meccanica, 1973, 8, 174-180.	1.2	2

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116	The delamination theory of wear. <i>Wear</i> , 1973, 25, 111-124.	1.5	1,085
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118	Wear of solid phase formed high density polyethylene in relation to the life of artificial hips and knees. <i>Wear</i> , 1973, 24, 35-51.	1.5	67
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124	A simplified analysis for the surface texture of rough engineering surfaces. <i>Wear</i> , 1974, 27, 219-223.	1.5	0
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150	Some new studies of the wear behavior of ultrahigh molecular weight polyethylene. <i>Journal of Biomedical Materials Research Part B</i> , 1976, 10, 303-310.	3.0	46
151	Wear and conformity in total knee replacement. <i>Wear</i> , 1976, 36, 175-187.	1.5	18

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153	Stochastic analysis of non-top-top contacting rough surfaces. <i>Wear</i> , 1976, 37, 201-208.	1.5	1
154	A theory of friction and wear based on a new characterisation of asperity interactions. <i>Wear</i> , 1976, 40, 203-222.	1.5	14
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163	On the Formation of Asperity on Worn Surfaces (7th Report). <i>Journal of the Japan Society of Precision Engineering</i> , 1977, 43, 1382-1388.	0.0	0
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167	Wear of some F.C.C. metals during unlubricated sliding part IV: Effects of atmospheric pressure on wear. <i>Wear</i> , 1977, 43, 165-174.	1.5	22
168	Dimensional analysis for wear systems. <i>Wear</i> , 1977, 43, 263-266.	1.5	30
169	A method of calculating steady state wear rate of metals from profilometric traces. <i>Wear</i> , 1977, 43, 351-365.	1.5	1

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172	Abrasive wear. <i>International Journal of Materials in Engineering Applications</i> , 1978, 1, 97-111.	0.1	16
173	Wear mechanism in composites: a qualitative model. <i>Wear</i> , 1978, 51, 169-179.	1.5	35
174	Computer simulation of the contact of rough surfaces. <i>Wear</i> , 1978, 49, 273-296.	1.5	20
175	The use of analytical surface tools in the fundamental study of wear. <i>Wear</i> , 1978, 46, 19-53.	1.5	37
176	The significance of near surface microstructure in the wear process. <i>Wear</i> , 1978, 46, 241-250.	1.5	137
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178	Comments on "The delamination theory of wear". <i>Wear</i> , 1978, 47, 417-418.	1.5	5
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181	A contribution to the theory of wear "the abrasive wear of a soft surface against a rough hard surface. <i>Wear</i> , 1978, 50, 127-144.	1.5	5
183	Chapter "Considerations of Friction and Wear. <i>Tribology Series</i> , 1978, 2, 1-28.	0.1	0
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187	Adhesive wear of lubricated contacts. <i>Tribology International</i> , 1979, 12, 169-179.	3.0	35
188	Tribological systems and wear factors. <i>Wear</i> , 1979, 56, 81-92.	1.5	20

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190	The dispersion of life of bonded MoS <sub>2</sub> solid lubricant coatings. <i>Wear</i> , 1979, 56, 203-212.	1.5	12
191	The effect of the transfer film on the friction and wear of dry bearing materials for a power plant application. <i>Wear</i> , 1979, 52, 347-363.	1.5	13
192	An explanation of the different regimes of friction and wear using asperity deformation models. <i>Wear</i> , 1979, 53, 229-243.	1.5	492
193	Sliding wear of polymeric composites. <i>Wear</i> , 1979, 53, 279-301.	1.5	62
194	Analysis of the mechanism of steady wear by the fatigue theory as a stochastic process. <i>Wear</i> , 1979, 54, 217-233.	1.5	12
195	Clean mild wear of ordered and disordered Permendur 49. <i>Wear</i> , 1979, 55, 345-357.	1.5	1
196	A relation between wear volume and sliding time for composite materials. <i>Wear</i> , 1979, 52, 133-139.	1.5	5
197	Effect of fiber orientation on friction and wear of fiber reinforced polymeric composites. <i>Wear</i> , 1979, 53, 129-141.	1.5	281
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199	Effect of microroughness on rubber friction. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1979, 17, 2241-2252.	1.0	0
200	Influence of ion implantation and overlay coatings on various physico-mechanical and wear properties of stainless steel, titanium and aluminium. <i>Thin Solid Films</i> , 1979, 64, 191-203.	0.8	68
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202	Shunts for High-Current Density Brushes. <i>IEEE Transactions on Components, Hybrids and Manufacturing Technology</i> , 1979, 2, 89-94.	0.4	6
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1810	Abrasive wear mechanisms and their relation to rock properties. <i>Wear</i> , 2013, 308, 86-94.	1.5	74
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2107	Seizure pressure and sliding velocity diagrams on tribological behavior of Al alloy composites in as-cast and heat-treated conditions. <i>Tribology International</i> , 2014, 80, 1-6.	3.0	5
2108	Microstructural and tribological characterization of air plasma sprayed nanostructured alumina-titania coatings deposited with nitrogen and argon as primary plasma gases. <i>Materials &amp; Design</i> , 2014, 59, 252-263.	5.1	36
2109	Microstructural evolution in ultrasonically processed in situ AZ91 matrix composites and their mechanical and wear behavior. <i>Materials &amp; Design</i> , 2014, 53, 475-481.	5.1	49
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3580	The Relation Between Subsurface Stresses and Useful Wear Life in Sliding Contacts. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	7
3581	Review of engine journal bearing tribology in start-stop applications. <i>Engineering Failure Analysis</i> , 2020, 108, 104344.	1.8	45
3582	The fate and role of in situ formed carbon in polymer-derived ceramics. <i>Progress in Materials Science</i> , 2020, 109, 100623.	16.0	238

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4983	Simulation Study of Thermal-Mechanical Coupling Fretting Wear of Ti-6Al-4V Alloy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7400.	1.3	1
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