

List of publications: Professor I M Hutchings FEng

1. I. M. Hutchings, Ph.D. Dissertation, University of Cambridge, 1974, 'The erosion of ductile metals by solid particles'.
2. I. M. Hutchings and R. E. Winter, *Wear* **27** (1974) 121, 'Particle erosion of ductile metals: a mechanism of material removal'.
3. R. E. Winter and I. M. Hutchings, *Wear* **29** (1974) 181, 'Solid particle erosion studies using single angular particles'.
4. J. E. Field, H. M. Hauser, I. M. Hutchings and A. C. Woodward, *Industrial Diamond Review*, July 1974, 255-9, 'Strength testing of diamond'. (Also pub. in *Industrie Diamanten Rundschau*, **8** (1974) 134-142)
5. I. M. Hutchings and R. E. Winter, *J. Phys. D: Appl. Phys.* **8** (1975) 8, 'The erosion of ductile metals by spherical particles'.
6. I. M. Hutchings and R. E. Winter, *J. Phys. E: Sci. Instr.* **8** (1975) 84, 'A simple small-bore laboratory gas gun'.
7. R. E. Winter and I. M. Hutchings, *Wear* **34** (1975) 141, 'The role of adiabatic shear in solid particle erosion'.
8. I. M. Hutchings, *Wear* **35** (1975) 371, 'Prediction of the resistance of metals to erosion by solid particles'.
9. I. M. Hutchings, R. E. Winter and J. E. Field, *Proc. Roy. Soc.* **A348** (1976) 379, 'Solid particle erosion of metals: the removal of surface material by spherical projectiles'.
10. I. M. Hutchings, *Rev. Sci. Instr.* **48** (1977) 923, 'Direct display of gas gun projectile velocity'.
11. I. M. Hutchings, *Int. J. Mech. Sci.* **18** (1976) 243, 'The ricochet of spheres and cylinders from the surface of water'.
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16. J. E. Field, I. M. Hutchings and D. A. Gorham, *Record of Int. Cong. on Instrumentation in Aerospace Simulation Facilities*, IEEE (1977) 142, 'Instrumentation for impact, erosion and fracture studies'.
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18. I. M. Hutchings, *New Scientist*, 2 March 1978, pp. 563-567, 'Bouncing bombs of the Second World War'.

19. I. M. Hutchings and D. A. Andrews, Proc. 13th Int. Cong. on High-speed Photography and Photonics, Tokyo (1978) 222, 'Light-emitting diodes as short duration light sources'.
20. I. M. Hutchings, in Erosion: Prevention and Useful Applications, ASTM STP 664 (1979) 59, 'Mechanisms of the erosion of metals by solid particles'.
21. I. M. Hutchings, J. Mech. Phys. Solids **26** (1979) 289, 'Estimation of the yield stress of polymers at high strain rates using G.I.Taylor's impact technique'.
22. I. M. Hutchings, J. Phys. D: Appl. Phys. **12** (1979) 1819, 'Energy absorbed by elastic waves during plastic impact'.
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27. P. G. Towson and I. M. Hutchings, Proc. Conf. on Lubrication, Friction and Wear, Inst. of Engrs., Melbourne, Australia (1980) 65, 'The particle size effect in the erosion of copper by solid particle impact'.
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49. S. P. Timothy and I. M. Hutchings, Acta Metallurgica **33** (1984) 667, 'The structure of adiabatic shear bands in a titanium alloy'.
50. A. P. Mercer and I. M. Hutchings, Wear of Materials 1985, (ed. K. C. Ludema), ASME, New York, 332 'The influence of atmospheric humidity on the abrasive wear of metals'. (Also pub. in Wear **103** (1985) 205).
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58. A. J. Ninham and I. M. Hutchings, J. Vac. Sci. Technol. **A4** (1986), 2827, 'On the morphology of thermochemically produced Fe₂B/Fe interfaces'.
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