

PUBLICATIONS OF PROFESSOR B. CROSSLAND

1. 'On the Plastic Behaviour of Thick Tubes under Combined Torsion and Internal Pressure' 1953 - Journal of Mechanics and Physics of Solids, Vol. 2, p. 27. (with R. Hill).
2. 'Thread Inserts' 1954 - The Engineer, November 24th.
3. 'The Effect of Fluid Pressure on the Shear Properties of Alloy Steel' 1954 - Proceeding Institution of Mechanical Engineers, Vol. 168, p. 935.
4. 'An Apparatus for investigating the Film Lubrication of Plain Bearings' 1955 Bulletin of Mechanical Engineering Education, Vol. 1, part 4, p.37.
5. 'A Demonstration Dynamic Balancing Machine' 1955 - Bulletin of Mechanical Engineering Education, Vol. 1, part 6, p.28.
6. 'Vectorial and Analytical Solution for an Unsymmetrical Gyroscope' 1956 Bulletin of Mechanical Engineering Education, Vol. 1, part 7, p.23.
7. 'The Ultimate Strength of Thick-Walled Vessels subjected to Internal Pressure' 1955 - Engineering, Vol. 179, p.80 and 114. (with J. A. Bones).
8. 'Fatigue under Triaxial Stress: Development of a Testing Machine and Preliminary Results' 1956 - Proceedings of the Institution of Mechanical Engineers, Vol. 170, p.697 (with J.L.M. Morrison and J.S.C. Parry).
9. 'The Effect of Large Hydrostatic Pressures on the Torsional Fatigue Strength of an Alloy Steel' 1956 - International Conference on the Fatigue of Metals p.133.
10. 'Fatigue under Triaxial Stress: A Testing Machine and Preliminary Results' 1957 Engineering, Vol. 183, p.423 (with J.L.M. Morrison and J.S.C. Parry).
11. 'The Behaviour of Thick-Walled Steel Cylinders subjected to Internal Pressure' 1958 - Proceedings of the Institution of Mechanical Engineers, Vol. 172, p.777 (with J. A. Bones.)
12. 'The Plastic Flow and Fracture of a Brittle Material (Grey Cast Iron) with particular reference to the Effect of Fluid Pressure' 1958 - Proceedings of the Institution of Mechanical Engineers, Vol. 172, p.805 (with W.H. Dearden).
13. 'The Strength of Thick-Walled Cylinders' 1958 - Trans. of A.S.M.E. Series B, Vol. 81, p.95 (with S.M. Jorgensen and J. A. Bones).
14. 'The Effect of Hydrostatic Pressure on the Direct-Stress Fatigue Strength of an Alloy Steel' 1959 - Journal of Mechanical Engineering Science, Vol. 1, p.39 (with J.L.M. Morrison and D.J. White).
15. 'Fatigue Strength of Cylinders with Cross-Bores' 1959 - Journal of Mechanical Engineering Science, Vol. 1, p.207 (with J.L.M. Morrison and J.S.C. Parry).
16. 'The Strength of Thick Cylinders subjected to repeated Internal Pressure' 1960 Proceedings of the Institution of Mechanical Engineers, Vol. 174, p.95 (with J.L.M. Morrison and J.S.C. Parry).
17. 'Some Problems in the Design and Development of Equipment to withstand High Pressures' 1960 - Belfast Association of Engineers, 69th Session.
18. 'Behaviour of Compound Steel Cylinders subjected to Internal Pressure' 1961 Proceedings of the Institution of Mechanical Engineers, Vol. 175, p.1083 (with D.J. Burns.)
19. 'The Explosive Forming of Stainless Steel Dentures' 1963 - The Dental Practitioner, Vol. 13, p.413 (with G.A.S. Blair).
20. 'The Design of Thick-Walled Closed-Ended Cylinders based on Torsion Data' 1964 - Welding Research Council Bulletin No. 94.
21. 'An Introduction to Mechanics of Machines' published Longmans Green & Co. 1964 (with J.L.M. Morrison.)