



**Developments in Numerical and Experimental  
Methods Applied to Tribology: Proceedings of the  
10th Leeds-Lyon Symposium on Tribology Held at  
the Institut ... Lyon, France, 6th-9th September  
1983**

*D Dowson*

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Developments in Numerical and Experimental Methods Applied to Tribology contains the proceedings of the 10th Leeds-Lyon Symposium on Tribology held at the Institut National des Sciences Appliquées in Lyon, France, on September 6-9, 1983. The papers explore developments in numerical and experimental methods used in tribology and cover topics ranging from ferrography and rheology to bearings and bearing dynamics, hydrodynamics, contact phenomena, and plasticity.

The papers are organized into 13 sessions. The first two papers examine the use of ferrography in the analysis of non-ferrous particles as well as some of the methods of obtaining approximate numerical solutions to boundary-value problems that arise in elastohydrodynamic lubrication. The next session is concerned with rheology and contains papers that describe numerical solutions for power law fluids as applied to slider bearings; grease lubricated finite length bearings; and the use of the ball bearing as rheological test device. The papers that follow discuss bearings and their dynamics, oil films on lubricated surfaces, hydrodynamic lubrication, and finite element analysis of transient elastohydrodynamic lubrication. The final session considers plastic deformation, two body abrasion processes, and micropitting and asperity deformation.

This monograph will appeal to tribologists.

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