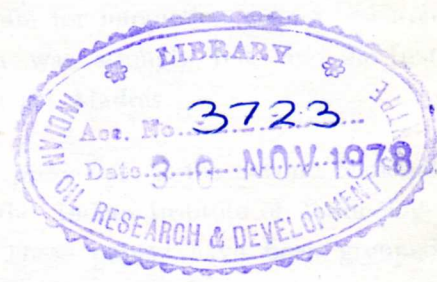


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**PROCEEDINGS**  
OF THE  
**Second National  
Industrial Tribology Conference  
Bombay—1976**



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## PREFACE

The word Tribology, though having ancient greek origin, was introduced in our vocabulary not very long ago. It made its forceful appearance on the Indian Scene when the World Conference in Industrial Tribology was organised at IIT Delhi in 1972. The impact gave birth to the Indian Society for Industrial Tribology and under its influence Industrial Tribology has become an accepted discipline at many institutions. A number of short term programmes have been organised by the society for the people in the industry and a few postgraduate programmes have also been initiated. With widespread acceptance of this multidisciplinary area the need for a forum for interaction among research workers and practising engineers in this area was strongly felt, and the first national conference was organised in 1974 at IIT Madras.

This volume incorporates the papers presented at the Second National Industrial Tribology Conference held at the Indian Institute of Technology Bombay from December 6th – 8th, 1976. These papers have been grouped under 5 main sections viz.

1. Gears and I.C. Engines.
2. Friction and wear of surfaces.
3. Metal Working.
4. Bearings (Design, Stability and Performance).
5. Lubrication Practice and Maintenance Management.

The address of the Chairman and the Keynote address delivered by Dr. J. S. Ahluwalia has been included in the prelims. The Invited talk by Dr. H. Dalal was without a prepared text and we have been able to incorporate only a summary. We have however been able to record a large part of the discussions after the talk and that is also incorporated.

Dr. M. G. Krishna delivered an invited talk on Quest for conservation – the role of R and D Institutions. We are sorry that it could not be incorporated in the proceedings as the written text is not available.

