



Friction and Lubrication of Sliding Bearings, Volume II

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Message from the Guest Editor

Every year, billions of bearings of all kinds are used worldwide. Bearings are by far the most common machine elements. From miniature bearings used in watches to huge sliding bearings used in hydro turbines, bearings are present in almost every possible aspect of our lives.

The role of bearings is to guide and support surfaces in relative motion and, at the same time, to reduce friction. At first glance, this may seem to be a simple task. However, not only does this task involve complex physical, chemical, mechanical, and energetic phenomena, its role is of paramount importance in our current efforts to increase the efficiency of machines, to extend their working lives, and to protect the environment.

The current Special Issue focuses on the latest developments in lubrication mechanisms and lubricants and the effect of working parameters on their functionality and the modelling of their behavior.

Keywords

roller/ball bearing; hydrodynamic bearing; hydrostatic bearing; gas bearing; magnetic bearing; sliding modeling and simulations; monitoring; maintenance; materials; lubricants and any other related topics

