Special Issue

Gas Lubrication and Dry Gas Seal, 2nd Edition

Message from the Guest Editors

Gas has distinct advantages as a clean lubricant in the applications of load bearing and sealing in high-speed and high-precision machinery. Due to its low viscosity, aerodynamic and aerostatic lubrication can overcome the DN value limit, compared with rolling and liquid bearings, without producing much frictional heat and power consumption. However, low viscosity also leads to insufficient load capacity and viscous damping, and some significant scientific and technical problems have also emerged following the demand for more extreme and special applications. Hybrid lubrication and interdisciplinary problems can also generate interesting topics in this research field. This Special Issue aims to promote original research articles and review papers with topics related to state-of-the-art theoretical and experimental research on gas lubrication and dry gas seal.

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