Presented Papers

The following research papers based on the research work ***A Mathematical Approach to Some Aspects of Ferrofluid Lubrication*** have been presented.

1. Effect of rotation, radial roughness, width of the film region and squeeze velocity on ferrofluid squeeze-film between a sphere and a rough flat plate at *XXIX Gujarat Science congress 2015* which was organized by Gujarat Science Academy at the Science city, Ahmedabad, India, during February 28 and March 1,2015.

1. Ferrofluid lubricated squeeze-film bearing with circumferential roughness effect, Arbitary porous layer thickness and variable Magnetic field at *Recent trends in Mathematics and its Application-2014* which was organized by Department of Mathematics, C.U. Shah University, Wadhwan city, Gujarat, India on 19th December-2014.

Published Papers

The following research papers based on the research work *A Mathematical Approach to Some Aspects of Ferrofluid Lubrication* have been published/communicated.

1. On the ferrofluid lubricated squeeze-film characteristics between a rotating sphere and a radially rough plate, Meccanica, An International Journal of Theoretical and Applied Mechanics, 51(8) (2016) 1973-1984, ISSN: 0025-6455, DOI: 10.1007/s11012-015-0337-3.

2. Ferrofluid based squeeze-film bearing made up of porous and circumferentially rough discs with mocromodel patterns of porous structures (communicated at Tribology-materials, surfaces & interfaces)

3. Effect of pressure difference at the film-porous interface on ferrofluid lubricated squeeze-film bearing (communicated at Brazalian Society of Mechanical Sciences and Engineering)

4. Ferrofluid based circular discs squeeze-film bearings with porous roughness effects at the lower disc (communicated at J. of Engineering Tribology)