

Title (9)	:	Numerical Investigation into Trapezoid Surface Texture of Journal Bearing and RBD Palm Oil as Lubricant
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Abstract	:	Abstract: Researchers are interested in changing the surface texture of journal bearings to potentially improve their performance. This study investigates the use of RBD palm oil as a lubricant in journal bearings with various surface textures. The research focuses on different geometric shapes, such as square (geometry 1) and trapezoid (geometries 2 and 3), located in the divergent A area. Results show that geometry 1 enhances journal bearing performance at 800 and 1000 rpm, while geometry 3 (trapezoid) improves performance specifically at 1000 rpm with a constant eccentricity ratio of 0.7.