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What is tribology? Tribology is the study of science and

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engineering of interacting surfaces in relative motion. It includes the study and application of the principles of friction, lubrication and wear. Tribology is a branch of mechanical engineering and materials science. Tribology's economic and commercial impact is vast.

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While computer-aided engineering (CAE) treatments are well developed for structural analysis, in general the mathematical treatment of component tribology, at least from the perspective of a design tool, remains rather immature, hampered by a still-evolving understanding of the complex physics of wear and dynamics in some engine systems and the development of validated damage models.

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Tribology is one element of many interacting within a vehicle engine and powertrain. In adopting a detailed, theoretical, component approach to solving tribological problems, the minutiae can be overwhelmingly complex and practical solutions become elusive and uneconomic.

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