

KEYNOTE SPEAKERS

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Analytical models in Lubrication. A life experience

Until the 1960s, analytical modelling was practically the only method used to solve physical problems. However, numerical modelling or simulations have since become dominant. The author examines the requirements for a successful analytical modelling, placing particular emphasis on the graphical representation of problem configurations. Following this, three analytical models solved and published by the author in international collaboration are presented, focusing on the fields of thermohydrodynamics (THD), lubrication, and thermal tribology. Lastly, two user-friendly models suitable primarily for educational purposes are introduced, focusing on elastohydrodynamic lubrication (EHD) and capillary penetration of liquids.