Computational Design of Rolling Bearings

By Hung Nguyen-Schäfer

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This book comprehensively presents the computational design of rolling bearings dealing with many interdisciplinary difficult working fields. They encompass elastohydrodynamics (EHD), Hertzian contact theory, oil-film thickness in elastohydrodynamic lubrication (EHL), bearing dynamics, tribology of surface textures, fatigue failure mechanisms, fatigue lifetimes of rolling bearings and lubricating greases, Weibull distribution, rotor balancing, and airborne noises (NVH) in the rolling bearings. Furthermore, the readers are provided with hands-on essential formulas based on the up-to-date DIN ISO norms and helpful examples for computational design of rolling bearings.

The topics are intended for undergraduate and graduate students in mechanical and material engineering, research scientists, and practicing engineers who want to understand the interactions between these working fields and to know how to design the rolling bearings for automotive industry and many other industries.

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Editorial Review

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About the Author

Dr. Hung Nguyen-Schäfer is a senior technical manager in development of electric machines for hybrid and electric vehicles at EM-motive GmbH, a joint company of Daimler and Bosch in Germany. He has nearly 30 years of experience in automotive industry at Robert Bosch GmbH, Bosch Mahle Turbosystems, and EM-motive. His working areas are gasoline and diesel direct injection systems, fuel supply components, anti-breaking systems, fuel-cell vehicles, automotive turbochargers, hybrid, and electric vehicles.

He is also the author of three professional books:

Aero and Vibro-acoustics of Automotive Turbochargers. Springer Berlin-Heidelberg (2013)

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