

Hung Nguyen-Schäfer

Aero and Vibroacoustics of Automotive Turbochargers

**Aero And Vibroacoustics Of Automotive Turbochargers
2013 By Nguyen Sch Fer Hung Author 2013 Hardcover**

Hung Nguyen-Schäfer



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Aero and Vibroacoustics of Automotive Turbochargers Hung Nguyen-Schäfer, 2013-01-06 Aero and Vibroacoustics of Automotive Turbochargers is a topic involving aspects from the working fields of thermodynamics of turbomachinery aerodynamics rotordynamics and noise propagation computation In this broadly interdisciplinary subject thermodynamics of turbomachinery is used to design the turbocharger and to determine its operating conditions Aerodynamics is needed to study the compressor flow dynamics and flow instabilities of rotating stall and surge which can produce growling and whining type noises Rotordynamics is necessary to study rotor unbalance and self excited oil whirl instabilities which lead to whistling and constant tone type noises in rotating floating oil film type bearings For the special case of turbochargers using ball bearings some high order harmonic and wear noises also manifest in the rotor operating range Lastly noise propagation computation based on Lighthill's analogy is required to investigate airborne noises produced by turbochargers in passenger vehicles The content of this book is intended for advanced undergraduates graduates in mechanical engineering research scientists and practicing engineers who want to better understand the interactions between these working fields and the resulting impact on the interesting topic of Aero and Vibroacoustics of Automotive Turbochargers

Rotordynamics of Automotive Turbochargers Hung Nguyen-Schäfer, 2015-05-15 Rotordynamics of automotive turbochargers is dealt with in this book encompassing the widely working field of small turbomachines under real operating conditions at the very high rotor speeds up to 300000 rpm The broadly interdisciplinary field of turbocharger rotordynamics involves 1 Thermodynamics and Turbo Matching of Turbochargers 2 Dynamics of Turbomachinery 3 Stability Analysis of Linear Rotordynamics with the Eigenvalue Theory 4 Stability Analysis of Nonlinear Rotordynamics with the Bifurcation Theory 5 Bearing Dynamics of the Oil Film using the Two Phase Reynolds Equation 6 Computation of Nonlinear Responses of a Turbocharger Rotor 7 Aero and Vibroacoustics of Turbochargers 8 Shop and Trim Balancing at Two Planes of the Rotor 9 Tribology of the Bearing Surface Roughness 10 Design of Turbocharger Platforms using the Similarity Laws The rotor response of an automotive turbocharger at high rotor speeds is studied analytically computationally and experimentally Due to the nonlinear characteristics of the oil film bearings some nonlinear responses of the rotor besides the harmonic response $1X$ such as oil whirl oil whip and modulated frequencies occur in Waterfall diagram Additionally the influences of the surface roughness and oil characteristics on the rotor behavior friction and wear are discussed This book is written by an industrial R D expert with many years of experience in the automotive and turbocharger industries The all in one book of turbochargers is intended for scientific and engineering researchers practitioners working in the rotordynamics field of automotive turbochargers and graduate students in applied physics and mechanical engineering

Rotordynamics of Automotive Turbochargers Hung Nguyen-Schäfer, 2012-03-06 This book deals with rotordynamics of automotive turbochargers while encompassing the analysis of the dynamics of rotating machines at very high rotor speeds of 300 000 rpm and above This interdisciplinary field

involves 1 thermodynamics and turbo matching knowledge to compute working conditions of turbochargers 2 fluid and bearing dynamics to calculate various operating thrust loads and to design the rotating floating ring bearings two oil film bearings and 3 tribology to improve the rotor stability and to reduce the bearing friction Mathematical background in modeling and simulation methods is necessary however the prerequisites have been kept to a minimum The book addresses both practitioners working in the field of rotordynamics of automotive turbochargers and graduate students in mechanical engineering

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