



The Measurement of Mechanical Parameters in Machines

N. P. Rayevskii

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The Measurement of Mechanical Parameters in Machines is a translation from the Russian version and presents methods used in the U.S.S.R. for measuring mechanical properties.

This book discusses different indicators and accepted methods of measuring separate parameters. This text also explains the metrological characteristics of mechanical parameters that can be determined by applying the equations of motion, usually represented as equations of kinetic energy or as a Lagrangian equation. The electrical methods of measuring machines and recording results are noted, and the kinds of methods preferred because these are more suitable in investigating the kinematic and dynamic parameters of the machine are reviewed.

This book also discusses the two groups that make up the electrical methods of measuring dimensions, which are composed of 1) capacitive, inductive and resistance pick-ups and 2) photoelectric and bolometric pick-ups. The author adds that in designing experimental research of a machine, determining the measurement of its principal parameters, such as displacements, linear velocities, acceleration, torque, and vibrations, is very important. This text also notes that some experimental problems may exist, such as those related to measurements of non-uniform rotation of shafts and the determination of effective inertia in a machinery. Automotive engineers, industrial mechanics, physicists, and professors and students in applied physics will find this book useful.



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