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Quantum Limits on Measurement and Control of a Mechanical Oscillator Vivishek Sudhir, 2017-11-21 This thesis reports on experiments in which the motion of a mechanical oscillator is measured with unprecedented precision The position fluctuations of the oscillator a glass nanostring are measured with an imprecision that is sufficient to resolve its quantum zero point motion within its thermal decoherence time The concomitant observation of measurement back action in accordance with Heisenberg's uncertainty principle verifies the principles of linear quantum measurements on a macroscopic mechanical object The record of the measurement is used to perform feedback control so as to suppress both classical thermal motion and quantum measurement back action These results verify some of the central and long standing predictions of quantum measurement theory applied to a macroscopic object The act of measurement not only perturbs the subject of the measurement the mechanical oscillator but also changes the state of the light used to make the measurement This prediction is verified by demonstrating that the optical field after having interacted with the mechanical oscillator contains quantum correlations that render its quadrature fluctuations smaller than those of the vacuum i e the light is squeezed Lastly the thesis reports on some of the first feedback control experiments involving macroscopic objects in the quantum regime together with an exploration of the quantum limit of feedback control The book offers a pedagogical account of linear measurement theory its realization via optical interferometry and contains a detailed guide to precision optical interferometry

Distributed Large-Scale Dimensional Metrology Fiorenzo Franceschini, Maurizio Galetto, Domenico Maisano, Luca Mastrogiacomo, Barbara Pralio, 2011-06-06 The field of large scale dimensional metrology LSM deals with objects that have linear dimensions ranging from tens to hundreds of meters It has recently attracted a great deal of interest in many areas of production including the automotive railway and shipbuilding sectors Distributed Large Scale Dimensional Metrology introduces a new paradigm in this field that reverses the classical metrological approach measuring systems that are portable and can be easily moved around the location of the measured object which is preferable to moving the object itself Distributed Large Scale Dimensional Metrology combines the concepts of distributed systems and large scale metrology at the application level It focuses on the latest insights and challenges of this new generation of systems from the perspective of the designers and developers The main topics are coverage of measuring area sensors calibration on line diagnostics probe management and analysis of metrological performance The general descriptions of each topic are further enriched by specific examples concerning the use of commercially available systems or the development of new prototypes This will be particularly useful for professional practitioners such as quality engineers manufacturing and development engineers and procurement specialists but Distributed Large Scale Dimensional Metrology also has a wealth of information for interested academics

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