



## The Photonic Force Microscope and Its Applications

By Giovanni Volpe

LAP Lambert Acad. Publ. Okt 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x11 mm. This item is printed on demand - Print on Demand Neuware - The ability of detecting forces and torques at the micro- and nano- scale is of fundamental importance. The photonic force microscope (PFM) had been employed to measure forces in the range of femto- to pico-Newton in many different fields with exciting applications in biophysics, thermodynamics of small systems, and colloidal physics. Here, after an introductory overview of a typical PFM setup, we discuss the three main aspects necessary to understand the PFM, i.e. optical trapping, Brownian motion in an optical trap, and position detection. In the second part of the book, we describe some applications of the PFM: the measurement of plasmon radiation forces, the photonic torque microscope and the measurement of the torque produced by a vortex light beam, the measurement of the characteristics of microscopic flows, and some applications with trapped cells. 188 pp. English.



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