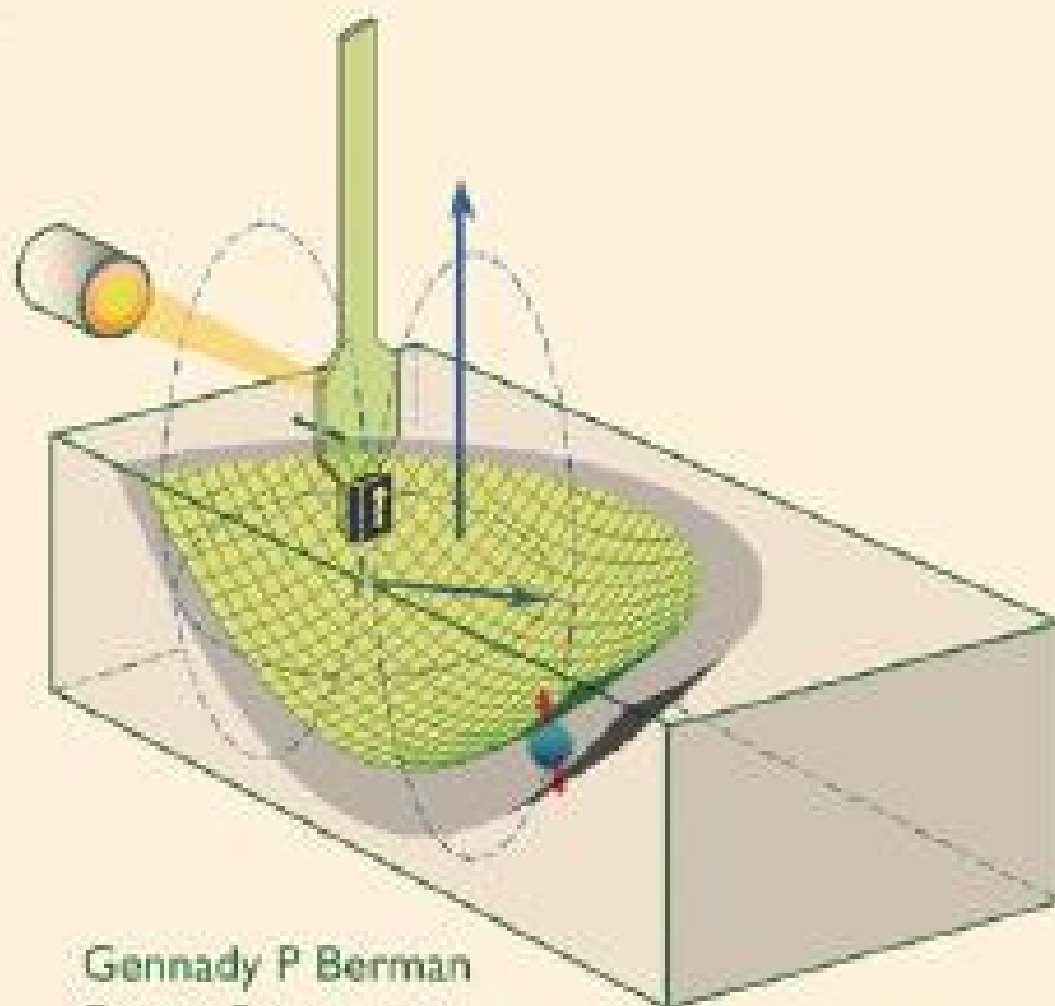


# Magnetic Resonance Force Microscopy and a Single-Spin Measurement



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# Magnetic Resonance Force Microscopy And A Single Spin Measurement

Gennady P. Berman

Magnetic resonance strength microscopy (MRFM) is a speedily evolving box which originated in Nineties and matured lately with the 1st detection of a unmarried electron spin under the skin of a non-transparent solid. additional improvement of MRFM strategies can have an outstanding effect on many parts of technology and know-how together with physics, chemistry, biology, or even medicine. Scientists, engineers, and scholars from numerous backgrounds Magnetic Resonance Force Microscopy And A Single Spin Measurement will all have an interest during this promising field. the target of this "multi-level" booklet is to explain the fundamental principles, applications, and the complex concept of MRFM. concentrating on the experimental oscillating cantilever-driven adiabatic reversals (OSCAR) detection strategy for unmarried electron spin, this ebook includes necessary study information for scientists operating within the box of quantum physics or magnetic resonance. Readers strange with quantum mechanics and magnetic resonance can be in a position to receive an figuring out and appreciation of the elemental rules of MRFM.

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