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## The Hydrogen Atom

By Bassani, G. Franco / Inguscio, Massimo

Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the Symposium, Held in Pisa, Italy, June 30-July 2, 1988 | Atomic hydrogen, the simplest of all stable atoms, has been a challenge to spectroscopists and theoreticians for many years. Here, as in similar systems like positronium, muonium and possibly helium, the accuracy of theoretical predictions is comparable to that of experimental measurements. Hence exciting confrontations are possible. This together with expected large experimental improvements explains the strong interest in the symposium held in Pisa in June-July 1988. The resulting book completely covers the precision spectroscopy of atomic hydrogen and hydrogen-like systems, and also discusses aspects of QED and the influence of strong fields. | I Precision Spectroscopy of Hydrogen: Fundamental Physics and Universal Constants.- The Hydrogen Atom (An Historical Account of Studies of Its Spectrum).- Interference of the Hydrogen Atom States ( $n=2$ ).- Separated Oscillatory Field Measurement of the Lamb Shift in H,  $n=2$ .- Hydrogen Spectroscopy and Fundamental Physics.- Doppler-Free Two-Photon Spectroscopy of Hydrogen Rydberg States: Remeasurement of  $R?$ .- Two-Photon Transitions Between Discrete States.- Two-Photon Spectroscopy of Hydrogen  $1S-2S$ .-  $1S-2S$  Transition-Frequency Calibration.- High Resolution Spectroscopy of Hydrogen.- Trapped Atomic Hydrogen.- Atomic Hydrogen in a Magnetic Trapping Field.- Frequency Standards in the...


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