



Precision Spectroscopy Diode Lasers And Optical Frequency Measur

Author :Leo Hollberg / **Category :**Uncategorized / **Total Pages**
: 420 pages

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Summary : Free precision spectroscopy diode lasers and optical frequency measur pdf download - a selected set of reprints from the optical frequency measurement group of the time and frequency div of the nat inst of standards and technology and consists of work published between 1987 and 1997 the 2 programs represented are 1 development of tunable diode-laser technology for scientific applications and precision measurements and 2 research toward the goal of realizing optical-frequency measurements and synthesis the papers are organized in 5 categories diode laser technology tunable laser systems laser spectroscopy optical synthesis and extended wavelength coverage and multi-photon interactions and optical coherence

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PDF PRECISION SPECTROSCOPY DIODE LASERS AND OPTICAL FREQUENCY MEASUR

wavelength-modulation spectroscopy near 1.4 μ m for ... - ... wavelength-modulation spectroscopy, tunable diode laser ... of telecommunications-grade tunable diode lasers ... are the nominal optical frequency and ...

y. he rapidly swept, b.j. orr continuous-wave cavity ... - continuous-wave cavity ringdown spectroscopy with optical heterodyne detection: ... tunable diode lasers, ... continuous-wave cavity ringdown spectroscopy: ...

heterodyne spectroscopy of astronomical and laboratory ... - at the astronomical source and a precision ... an array of 4 current-tuned diode lasers ... the broken line is the absorption line profile measur-

measurement of the absorption with a diode laser ... - role of noise in the diode-laser spectroscopy of the spectral line ... with the aid of tunable diode lasers. ... optical channel were compensated by a double-beam ...

cryogenic optical resonators: a new tool for laser ... - ... a new tool for laser frequency stabilization at the 1 Hz level ... optical frequency standards, ... the beat frequency between the two lasers is 2.0 GHz.

experiments with fabry-pérot wavelength calibrators - tional stability and frequency precision ... a dual-?nesse fpi cavity using frequency stabilized diode lasers. ... all advantages of the optical frequency comb ...

a 1014 nm linearly polarized low noise narrow- linewidth ... - ... "a precision measur ement of the gravitational ... aist," in conference on lasers and electro-optics(optical society ... single-frequency diode lasers ...

arxiv:1506.00436v2 [physics.optics] 17 sep 2015 - sources employed are dye lasers [1], sum-frequency mixed bre lasers [2, 3], or ampli ed diode lasers [4]. ... precision spectroscopy [6, 7], ...

arxiv:1506.00436v1 [physics.optics] 1 jun 2015 - sources employed are dye lasers [1], sum-frequency mixed bre lasers [2, 3], or ampli ed diode lasers [4]. ... precision spectroscopy [6, 7], ...

vcSEL-based, high-speed, in situ tdLas for in- cylinder ... - corresponding to a h₂O precision of 0.046 vol.% h₂ ... vcSEL against dFB lasers. ©2013 optical society of ... spectroscopy, diode lasers; (120.1740) combustion ...

frequency-comb-based absolute frequency measurements in ... - frequency-comb-based absolute frequency measurements in the mid-infrared with a difference-frequency spectrometer ... 0.5 s,t,100 s for the diode and the nd:yag lasers,

high-power laser diode array syst em for optical pumping of rb - high-power laser diode array syst em for optical ... optical pumping, spectroscopy ... the main part of the realized arrang ement was the high-power laser diode ...

high-power broad-area 808 nm dFB lasers for pumping solid ... - high power broad area 808 nm dFB lasers for pumping solid state lasers a. klehr*, f ... diode lasers with a small spectral ... raman spectroscopy and measuring ...

astronomy c eso 2014 astrophysics - aanda - fundamental atomic or molecular reference lines in optical and ... and frequency precision ... ?nesse fpi cavity using frequency stabilized diode lasers.

parameter optimization of a dual-comb ranging system by ... - 1state key laboratory of precision measurement technology ... diode laser and optical frequency comb generator," opt ...

optical frequency combs," phys. rev ...

diode-laser-pumped nonplanar ring oscillator to less than ... - we present results on the frequency stabilization of two diode-laser-pumped ring lasers that ... frequency stability of these lasers is ... a precision rf oscillator ...

quadratic dependence on temperature of cs 0–0 hyper?ne ... - chining technologies and semiconductor lasers combined ... dark line resonance spectroscopy are generated by phase ... diode signal is demodulated a second ...