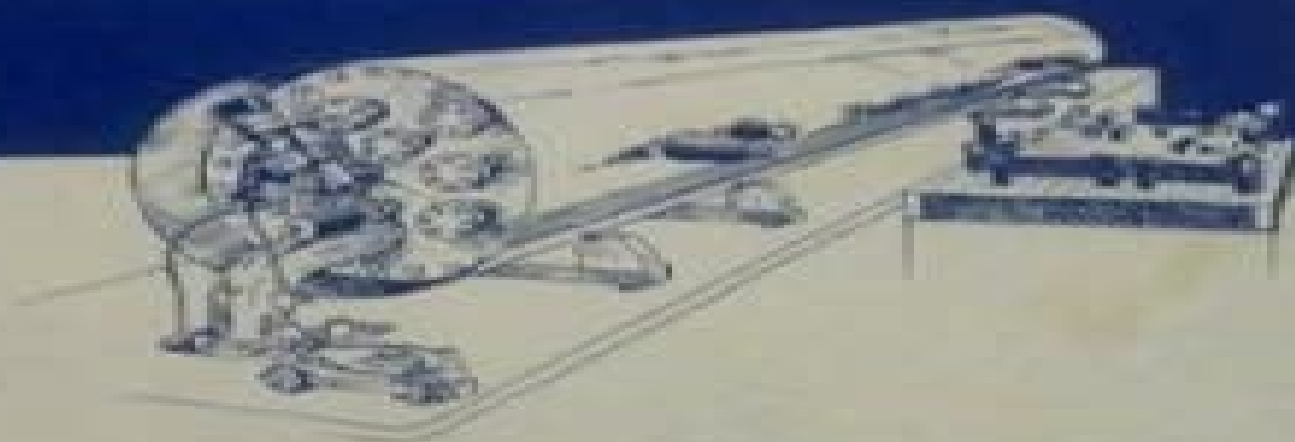


James Jespersen and Jane Fitz-Randolph



From Sundials To Atomic Clocks



Understanding Time and Frequency

U.S. Department of Commerce • Technology Administration
National Institute of Standards and Technology

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VCSELs for Cesium-Based Miniaturized Atomic Clocks Ahmed Al-Samaneh, 2015-09-23 Frequency standards or clocks provide time references for a wide range of applications such as synchronization of communication networks remote sensing and global positioning Over the last couple of decades demands on the data rates of many communication systems have substantially increased imposing more restricted requirements on the stability of their timing devices At the same time applications have become more mobile increasing the demand for small and low power clocks Atomic clocks have provided the most stable frequency references for more than 50 years However the size and power requirements of microwave cavity based atomic clocks prohibit them from being portable and battery operated Hence research on miniaturized atomic clocks MACs has been initiated by various research groups A European research project on MACs funded by the European commission started in 2008 This dissertation reports on the achievements within the European research project in the development of suitable lasers for such atomic clocks Vertical cavity surface emitting lasers VCSELs are compelling light sources for MACs because of their low power consumption high modulation bandwidth and favorable beam characteristics VCSELs must feature polarization stable single mode emission Additionally they must provide narrow linewidth emission at a center wavelength of about 894.6 nm and be well suited for harmonic modulation at about 4.6 GHz in order to employ coherent population trapping effect at the cesium D1 line The polarization orientation of the emitted light of a standard VCSEL is a priori unknown Polarization control is achieved by etching a shallow surface grating in the top Bragg mirror For the purpose of integration with the clock microsystem flip chip bondable VCSEL designs are realized Such designs facilitate a straightforward mounting and make the electrical contacts high frequency compatible

[Encyclopedia of Computer Science and Technology](#) Allen Kent, James G. Williams, 1997-07-09 Artificial Intelligence and Object Oriented Technologies to Searching An Algorithmic Tour *NBS Special Publication*, 1979

Publications of the National Bureau of Standards 1977 Catalog United States. National Bureau of Standards, 1978

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Rubidium atomic clock Rb is the workhorse of the satellite navigation systems of which GPS is now a household name. With just the tap of a few keys drivers and navigators all over the world are able to reach their destination effortlessly with high precision. People are now curious to know what makes this possible. Hence the need to explain in simplistic terms the Rb atomic clocks that are onboard these satellite navigation systems because no good satellite navigation system is possible without such clocks. But why only Rb atomic clocks when far better and exotic atomic clocks are available? The reasons are as simple as that they are slim, low in weight, easy to build inexpensively. They are also used in numerous military applications such as secure communications, electronic warfare, command and control, telemetry, and navigation. Besides, they are used in the measurements of the variation in fine structure constant, test of relativity, precise spectroscopy, and scientific research. This book details the history of time keeping and the chronological development of the Rb atomic clocks with special focus on the physics package that accounts for the actual performance of the clock. Researchers and industrialists will find that producing such clocks is relatively simple and inexpensive.

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