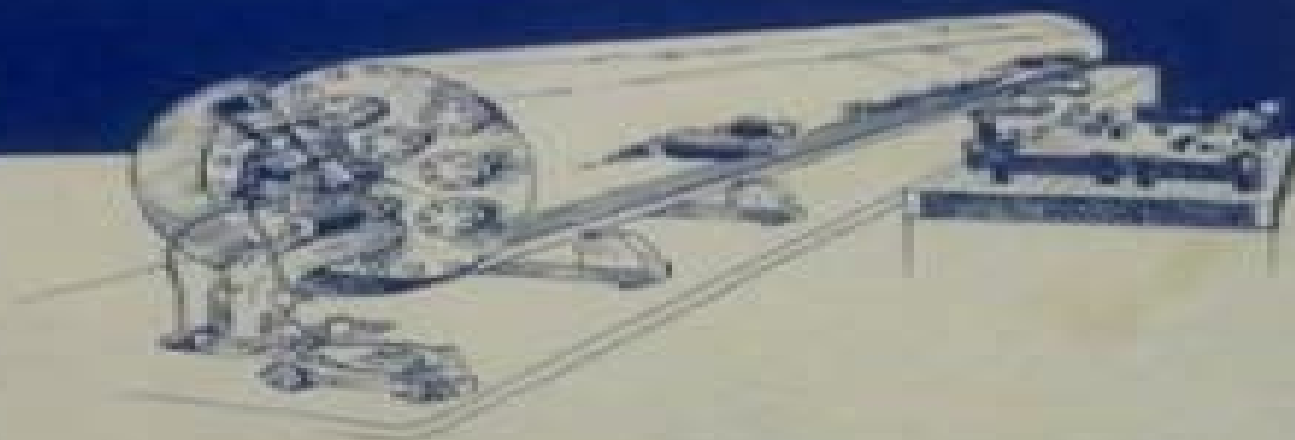


James Jespersen and Jane Fitz-Randolph



From Sundials To Atomic Clocks



Understanding Time and Frequency

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

From Sundials To Atomic Clocks Understanding Time And Frequency Monograph

Ahmed Al-Samaneh



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From Sundials to Atomic Clocks James Jespersen, John S. Beers, Raymond W. Hayward, William Frederick Meggers, Jane Fitz-Randolph, 1975 **NBS Monograph**, 1977 **NIST Special Publication**, 2000

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

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

Responding to National Needs James F. Schooley, 2000 NBS Special Publication, 1979

Rubidium Atomic Clock: The Workhorse Of Satellite Navigation G M Saxena, Bikash Ghosal, 2020-03-05 The 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

HVAC and Chemical Resistance Handbook for the Engineer and Architect Tom Arimes,1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria

Publications of the National Bureau of Standards United States. National Bureau of Standards,1977 *Astronomy Education Materials* ,1982 **NBS Time and Frequency Dissemination Services** Sandra L. Howe,1979 **The United States Department of Commerce Publications, Catalog and Index Supplement** United States. Department of Commerce,1973 *Astronomy and Astrophysics Abstracts* S. Böhme,W. Fricke,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14 Astronomy and Astrophysics Abstracts aims to present a comprehensive documenta tion of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 34 records literature published in 1983 and received before February 17 1984 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organiza tions observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura and Ms Monika Kohl Mr Martin Schlotelburg and Mr Ulrich Oberall supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg March 1984 The Editors Contents Introduction Concordance Relation ICSU AB AAA 3 Abbreviations 10 Periodicals Proceedings Books Activities 001 Periodicals 15 002 Bibliographical Publications Documentation Catalogues Atlases 50 003 Books 58 004 History of Astronomy 67 005 Biography 71 006 Personal Notes 73 007 Obituaries

Subject Guide to U.S. Government Reference Sources Judith Schiek Robinson,1985 *The United States Department of Commerce Publications, Catalog and Index Supplement* United States. Department of Commerce,1967

United States Department of Commerce Publications, Catalog and Index United States. Department of Commerce. Library,1977 **Discovering Astronomy** Ralph Robert Robbins,William H. Jefferys,1988 This is an extensive revision of the

first and still only introductory astronomy text to take a discovery activities approach to learning astronomy encouraging students to be active rather than passive learners Students use an equipment kit included with the book to construct observing instruments including a telescope so they can carry out measurement activities and obtain direct experience in the scientific gathering and analyzing of data The text is flexible it is not a lab manual The equipment kit is available separately it contains a simple telescope a cross staff quadrant spectroscope Ray Box grill telescope and diffraction grating Changes in this new edition include greater adaptability of the text updated astrophysics observations from the Voyager mission discussion of grand unified theories and of the inflationary universe Searching for Isabel Godin Celia Wakefield, 1995 Searching for Isabel Godin is the story of the first woman to go down the Amazon Searching for Isabel Godin is a suspenseful book about courage exploration and the rewards that come with finding a kindred spirit from the past

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