



# Fohn Beam Steering Technology

**Xiaolong Qi**



## **Fohhn Beam Steering Technology:**

High Capacity Digital Beam Steering Technology Daniel Hebert, 2013      **Optical Beam Steering Using a 2D MEMS Scanner** Yves Pétremand, 2010 *Optical Beam Steering Using a 2D MEMS Scanner*      *An Automatic Beam Steering System for the NSLS X-17T Beam Line Using Closed Orbit Feedback*, 1987      Computer Control Prototype for Beam Steering Systems Within the Tandem Van De Graaff Accelerator McMaster University. Dept. of Computer Science and Systems, W. F. S. Poehlman, J. Wong, R. A. McNaught, 1987      **An Automatic Beam Steering System for the NSLS X-17T Beam Line Using Closed Orbit Feedback**, 1987 Initial observations of motion of the undulator radiation in the NSLS X 17T beam line clearly indicated that the beam had to be stabilized in both directions to be usable for the planned soft x ray imaging experiments The low frequency spectra of beam motion contained peaks in the range from dc to 60 Hz and at higher frequencies A beam steering system employing closed orbit feedback has been designed and installed to stabilize the beam in both planes In each plane of motion beam position is measured with a beam position detector and a correction signal is fed back to a local four magnet orbit bump to dynamically control the angle of the radiation at the source This paper describes the design and performance of the beam steering system      High Performance Integrated Beam-steering Techniques for Millimeter-wave Systems Ahmed Shehata Mohamed Abdellatif, 2015 Recently the research and development of low cost and highly efficient millimeter wave mmWave systems with beam steering capabilities have significantly advanced to address the ever increasing demand for future wireless ultra broadband applications These applications include but are not limited to automotive anti collision surveillance radar smart navigation systems improved wireless tracking satellite communication imaging 5G wireless communication and 60GHz multi gigabit wireless personal and local area network WPAN WLAN In general beam steering capability significantly relaxes the overall system power budget and minimizes the interference In communication applications it enhances the link robustness through multi path mitigation and increases the channel and the aggregated channel throughput by exploiting the spatial dimension In imaging radar systems beam steering is essential for achieving the required resolution angle of arrival In this work I have proven many beam steering advantages in this work through the development of a ray tracing based wireless channel model which has been used to extract the antenna system requirements and to quantitatively illustrate the usefulness of the presented beam steerable systems Despite the advantages it provides the realization of this electronic beam steerable mmWave antenna system is quite challenging In general the mmWave components design integration fabrication and testing processes are far more complex than their lower frequency counterparts This can be attributed to the significant losses and parasitics experienced at mmWave frequencies as well as the lack of reliable design models Systems with fully integrated on chip antennas and passives have been widely studied and presented at mmWave range however the performance low antenna gain high phase noise etc the cost die size is huge and thermal problems are still major issues for these systems Hybrid integration tackles these problems by combining a compact

and low power consumption die or multiple dies with high performance off chip passives antenna feed network passive phase shifters resonators etc however this integration is costly In addition there is a challenge associated with the implementation of high performance components at mmWave range This is mainly due to the use of advanced non standard types of fabrication technologies and complex integration packaging techniques Investigation optimization development of a highly efficient and yet very low cost mmWave beam steering solution calls for a multi disciplinary approach which involves EM theory optimization techniques microwave circuits wireless communications Silicon micro fabrication layout design parasitics modeling extraction and MEMS technology The proposed study introduces a high performance beam steering mmWave antenna system along with its integration with the active components with special consideration to the fabrication cost The new high resistivity Silicon HRS dielectric waveguide DWG based platform which has recently been developed at CIARS Centre for Intelligent Antenna and Radio Systems is extended and used for wireless mmWave systems with beam steering antennas Electronic beam steering can be implemented through beam switching configurations simple fast but coarse or phase array configurations complex but high performance for large arrays A novel low cost highly efficient and compact switched beam antenna is proposed for the automotive radar application The design optimization along with the fabrication and measurement details have been discussed For phased array applications various HRS DWG based antenna designs have been proposed and discussed in this study Among them is the novel pixelated antenna which represents a new systematic procedure for designing a compact and low cost dielectric antenna for mmWave sub THz applications I have developed a method using Genetic Algorithm to optimize the shape of the antenna in a compact space for any given specifications The other important component is the phase shifter Low cost compact and easily integrated phase shifters with low insertion loss and low power consumption are highly desirable for a wide range of applications In addition minimal insertion loss variations for the full range of phase shift over a wide frequency band is a critical requirement I have carefully studied the effects of phase shifters non idealities taking into consideration the phased array system level requirements and presented two novel HRS DWG based phase shifters Among the proposed phase shifters is a structure that changes the phase of the propagating mode by varying the propagation constant using a high dielectric constant 40 170 slab of Barium Lanthanide Tetratitanates This leads to a compact phase shifter design The additional advantage of this phase shifter is that it focuses the fields in a lossless air gap new low loss guiding structure Different types of the proposed phase shifter have been developed and successfully tested including electrically controlled ones Finally I present new techniques for low cost and efficient integration for the proposed high quality mmWave passives with active components

**Control Techniques in Beam**

**Steering and Vector Modulation Application** Jonathan Douglas Jerothe,2017 In the modern world researchers are continuously looking for faster and more efficient forms of communications A need for the ability to maximize the channel bandwidth available while maximizing the signal to noise ratio will be critical in the years to come As the society becomes

more dependent on wireless technology and communications the required data rates to sustain our needs will skyrocket in the coming years There are a number of emerging solutions to this problem one of which is to look to higher frequencies where more bandwidth is available due to a lack of use In order to achieve this solution a system must be built that can both achieve a higher range of frequencies without compromising the wireless fidelity of the signal being transmitted Over the years an attempt to solve this problem has come in the form of many different types of Beamforming Analog beamforming is the most basic form of beam steering and has the benefits of a maximized signal to noise ratio SNR While Digital beamforming is more flexible in allowing you to deal with different ranges of frequencies it however has an extremely high power usage that is currently expensive to be commercially viable This leads to the idea of creating way to induce both analog and digital beamforming into a single system A system which can have to flexibility to work in almost any frequency range offered by digital systems while achieving the same degree of accuracy and power that come with an analog system A commercially viable system efficiency would be able to satisfy the needs of growing demand by supplying a near limitless bandwidth supply with a high signal fidelity At the University of Delaware it is hoped that the Vector Modulator will be able to fulfill the technological demands of a growing world while being more economically friendly compared to competing ideas

**CEPA8 JP8.11 Laser Beam Steering** L. Sjöqvist, Totalförsvarets forskningsinstitut, 2004      Theory and Analysis of a Liquid Crystal Beam Steering Device Lino M. Miani (CAPT, USAF.), 1990      Automatic Local Beam Steering Systems for NSLS X-ray Storage Ring - Design and Implementation, 1991      *A Beam Steering System for a Small Lightweight Phased Array Antenna* George A. Hrivnak, Vincent J. Organic, ARMY ELECTRONICS COMMAND FORT MONMOUTH N J., 1970 The use of digital control circuitry and reciprocal latching ferrite phase shifters can result in a significant reduction in the power drain of the beam steering electronics for phased array antenna systems This report deals with the design of the beam steering electronics required for a small phased array antenna system utilizing 16 phase shifters LSI large scale integration and MSI medium scale integration monolithic digital circuitry are used extensively throughout the beam steering system as a means of reducing the size weight and power drain and simplifying the overall interconnection wiring Author      Towards Two Dimensional Optical Beam Steering with Silicon Nanomembrane-based Optical Phased Arrays David Nien Kwong, 2013 Silicon based on chip optical phased arrays are an enabling technology to achieving agile and compact large angle beam steering In this work a single layer array is presented and approaches to multilayer 3D photonic integration for achieving a 2D array are also discussed Finally two dimensional optical beam steering is achieved using both thermo optic and wavelength tuning Various structures are considered as an alternative to the conventionally used shallow etched surface gratings to achieve narrow beam widths in the far field along with low switching power The corrugated waveguide interspersed with 2D photonic crystal for crosstalk suppression is presented as a novel structure for coupling to free space that can provide lithographically defined index contrast in a single fabrication step along with the smallest beam widths

presented to date at 0 25 In addition a polysilicon overlay with an oxide etch stop layer on top of a silicon waveguide is also presented as a grating coupler that achieves narrow far field beam widths With this structure two dimensional steering of 20 X 15 is demonstrated with a 16 element optical phased array with a beam width of 1 2 X 0 4 and maximum power consumption of 20mW per channel

**Laser Beam Steering with Semiconductor Waveguide**, 1993 The ability to rapidly and randomly steer a laser beam is critical to the success of free space satellite based laser radar systems for missile defense and target tracking By applying waveguide technology Spire win demonstrate multi dimensional all electronic laser beam steering Parallel arrays of electronically phase modulated waveguide structures are being fabricated and a metal grating has been designed to spatially dissect an incident coherent planar waveform emitted at 1059 nm by a Nd YAG laser The rotation of the output light beam will occur through constructive interference effects in the far field A two dimensional array of phase control channels would allow scanning the beam over the entire image plane Initial efforts in Phase I are being focused on fabrication and testing of a two channel vertically situated set of buried waveguides The implementation of a double buried semiconductor structure with two GaAs cores and Al x Ga 1 x As cladding has been analyzed in detail to determine materials parameters that would allow us to demonstrate the highly novel concept of high speed electronic laser steering of a laser beam in the vertical direction The GaAs waveguide is being grown to contain a pn junction while the cladding consists of Al 0 08 Ga 0 92 As with the lower cladding doped n type and the upper cladding doped p type For a 2 micron thick waveguide only the fundamental mode and perhaps the first harmonic can be supported which should allow demonstration of optical interference in the far field

*Optical Beam Steering Using Phased Array Nanoantenna* Bhavanasri Devaraj, 2019 Abstract A perfect amalgam of optics and telecommunications has created many innovations in the field of antenna theory One such revolution has ameliorated the world of optical communication technology giving rise to the development of array theory and beam steering networks The reason behind the growing expansion of optical beam steering is due to its applications in radio astronomy remote sensing and radar photonic applications spectroscopy and much more

**Beam Steering Control System for a Cylindrical Array** S. A. O'Daniel, NAVAL ELECTRONICS LAB CENTER SAN DIEGO CA., 1970 A control method for automatically steering the beam of a partial cylindrical array radar antenna is described The beam is randomly positioned by controlling 3 bit diode phase shifters of the Microwave Integrated Circuit MIC type through the application of a small digital computer The application of thick film microcircuit techniques to produce the phasor driver and test circuit in a common package is described Author

**Two-axis Beam Steering Mirror Control System for Precision Pointing and Tracking Applications** Klaus Ulander, 2006 A study to build a laser beam steering system using a two axis mirror to maintain precise pointing control for an optical receiver system The example application is a long range several kilometers free space optical communication system Atmospheric effects cause the beam to wander as it propagates through free space due to thermal gradients The steering mirror serves to direct the centroid of the incoming beam onto a receiver An

Advanced Beam Steering System for the SRS at Daresbury P. D. Quinn, P. A. Buksh, J. V. Flaherty, Daresbury Laboratory, 1992

Coherent Optical Beam Steering Techniques Leo W. Procopio, Frederic A. Jessen, Peter M. Nave, Lewis J. Brown, PHILCO CORP BLUE BELL PA., 1964 The technical problems involved in achieving an electronically scanned coherent optical phased array are examined in detail Background information pertinent to an array design including studies of coherent optical components optical losses limitations imposed by propagation effects and radiation patterns generated by laser elements is presented Techniques to achieve both electronic steering of a single laser beam and a phased array of lasers are analyzed Studies include consideration of the physical devices themselves and analysis of their environmental sensitivity radiation characteristics and response speeds Design investigation of the optical phased array includes analysis of the laser oscillator amplifier combination the electronically controlled optical phase shifters the element beam steering devices and the output telescope systems Typical design data and performance specifications are presented Finally recommendations for further theoretical and experimental research are made Author

Beam Steering Due to Displaced Slots J. H. Whealton, R. W. McGaffey, E. F. Jaeger, 1979

Electro-optic Beam Steering Using Domain Engineered Lithium Tantalate Daren J. Chauvin, 2005

## Reviewing **Fohhn Beam Steering Technology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Fohhn Beam Steering Technology**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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