

Design and characteristic analysis of an all-optical AND, XOR, and XNOR Y-shaped MIM waveguide for high-speed information processing

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Received 23 December 2021; accepted 9 January 2022; posted 12 January 2022; published 4 February 2022

All-optical logic gates are exceptionally suited for Boolean ultrahigh-speed operation and logical computing. This study presents a plasmonic model that uses a Y-shaped metal-insulator-metal waveguide structure that realizes the ultrafast all-optical AND, XOR, and XNOR gate operation that is developed at a footprint of $6.6 \mu\text{m} \times 3.4 \mu\text{m}$ with a wavelength of $1.55 \mu\text{m}$. This construction relies on the notion of linear interference. The insertion loss and extinction ratio of the model are observed as 1.49 dB and 21.49 dB for AND, 1.03 dB and 18.97 dB for XOR, and 2.06 dB, and 10.92 dB for XNOR, respectively. The transmission efficiency, response time, and speed of the structure also are calculated and are used to improve the performance of any complex circuit in the future. The theoretical analysis of the proposed structure is carried out using the finite-difference time-domain method. © 2022 Optica Publishing Group

<https://doi.org/10.1364/AO.451871>

1. INTRODUCTION

The semiconductor industry has made enormous progress during the last few decades creating smaller, quicker, and more potent electronic devices, despite limits in low switching time, high input power, high power dissipation, limited bandwidth, and connectivity delays [1,2]. To overcome these limits, optical communications emerged and rapidly gained popularity because it replaced electrons with photons to transmit information [3]. Because of its enormous operational bandwidth, minimal electromagnetic interference (EMI), rapid speed, and massive data transmission capability, optics outperforms electronic systems [4,5]. As a result, optical circuits are seen as very bright prospects for signal transmission and processing, which can provide promising solutions [6].

Electronics or photonics are the most commonly used technologies in communications systems [7]. However, both face limitations in terms of speed and miniaturization [8,9]. As a result, researchers are developing a new technology called plasmonics [10]. The term plasmonics comes from plasmons, which are quanta linked with collective excitation of unpaired electrons in metals. Plasmonics is a technique used to compress

electromagnetic waves into tiny structures, which could lead to a new generation of ultrafast computer circuits and ultrasensitive detectors [11]. Surface plasmon polaritons (SPPs) are generated, manipulated, and detected through the science of plasmonics, which avoids the diffraction limit found in photonics [12]. Plasmonics allow light to be manipulated at subwavelength scales, potentially bridging the gap between traditional optics and nanoelectronics. Plasmon waves operate at optical frequencies that are a million times greater than the frequency of an electronic microprocessor. The higher the frequency of the wave, the more information we can transport [10–12]. Loss inside SPs has inhibited the use of plasmonics; however, this has been addressed by employing multiple waveguides serving as a metal-insulator-metal (MIM) structure [13–16], or a metal-dielectric and insulator-metal-insulator (IMI) structure [17]. Only MIMs have the strength to confine light to deep subwavelengths and route light at the nanoscale. MIM is combined with a variety of nanocavities to create all-optical tiny switching devices.

Logic gates are the crucial tenets in all digital devices. A Mach-Zehnder interferometer (MZI) based on a semiconductor optical amplifier (SOA) and a MZI based on lithium-niobate LiNbO_3 were used to build logic gates. Electrical signals are

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Speed of Information-Processing and Intelligence Philip A. Vernon,1987 There is an abundance of research and theorizing that exists on the contributions of reaction times mental speed and speed of information processing to individual differences in intelligence and mental abilities Much of this research is reviewed and discussed in this volume

Intelligence Nathan Brody,1992-03-20 This is the Second Edition of Nathan Brody s popular book Intelligence originally published in 1976 It presents a comprehensive review of contemporary research in this field including coverage of such controversial topics as the genetic and environmental influences on IQ and individual and group differences in intelligence The book also discusses both the psychometric and cognitive approaches to intelligence as well as new theories in the field Discusses both the psychometric and cognitive approaches to intelligence Provides a comprehensive review of contemporary research in this realm Covers new theories of intelligence *Speed of Information Processing and Individual Differences in Intelligence*

Dennis P. Saccuzzo,Gerald E. Larson,Bernard Rimland,NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CA.,1986 A battery of tachistoscopic auditory reaction time and microcomputer generated measures of information processing speed was administered to 96 college students between 18 and 22 years of age In addition each subject was given a battery of tests designed to evaluate right and left cerebral hemisphere functioning Criterion measures included a verbal Vocabulary and nonverbal Block Design measure of intelligence Results revealed a general processing speed factor in addition to task specific sources of variability Moreover the processing speed tasks loaded on the same second order factor as did traditional measures of I Q The findings support the theoretical view that processing speed may be a partial source of individual differences in intelligence An important objective for future work in this area is to separate and evaluate the common and specific sources of variability on information processing tasks Keywords Cognitive speed Inspection time Reaction time and Scholastic aptitude intelligence Author

Cognitive Contributions to the Perception of Spatial and Temporal Events G. Aschersleben,T. Bachmann,J. Müsseler,1999-11-18 The book is concerned with the cognitive contributions to perception that is with the influence of attention intention or motor processes on performances in spatial and temporal tasks The chapters deal with fundamental perceptual processes resulting from the simple localization of an object in space or from the temporal determination of an event within a series of events Chapters are based on presentations given at the Symposium on the Cognitive Contributions to the Perception of Spatial and Temporal Events September 7 9 1998 Ohlstadt Germany Following each chapter are commentary pieces from other researchers in the field At the meeting contributors were encouraged to discuss their theoretical positions along with presenting empirical results and the book s commentary sections help to preserve the spirit and controversies of the symposium The general topic of the book is split into three parts Two sections are devoted to the perception of unimodal spatial and temporal events and are accompanied by a third part on spatio temporal processes in the domain of intermodal integration The themes of the book

are highly topical There is a growing interest in studies both with healthy persons and with patients that focus on localization errors and dissociations in localizations resulting from different tasks These errors lead to new concepts of how visual space is represented Such deviations are not only observed in the spatial domain but in the temporal domain as well Typical examples are errors in duration judgments or synchronization errors in tapping tasks In addition several studies indicate the influence of attention on both the timing and on the localization of dynamic events Another intriguing question originates from well known interactions between intermodal events namely whether these events are based on a single representation or whether different representations interact

Human Intelligence Earl Hunt,2010-11-22 This book is a comprehensive survey of our scientific knowledge about human intelligence written by a researcher who has spent more than 30 years studying the field receiving a Lifetime Contribution award from the International Society for Intelligence Human Intelligence takes a non ideological view of a topic in which too often writings are dominated by a single theory or social viewpoint The book discusses the conceptual status of intelligence as a collection of cognitive skills that include but also go beyond those skills evaluated by conventional tests intelligence tests and their analysis contemporary theories of intelligence biological and social causes of intelligence the importance of intelligence in social industrial and educational spheres the role of intelligence in determining success in life both inside and outside educational settings and the nature and causes of variations in intelligence across age gender and racial and ethnic groups

Handbook of Intelligence Robert J. Sternberg,2000-03-13 Not since the landmark publication of Handbook of Human Intelligence in 1982 has the field of intelligence been more alive than it is today Spurred by the new developments in this rapidly expanding field Dr Sternberg has brought together a stellar list of contributors to provide a comprehensive broad and deeply thematic review of intelligence that will be accessible to both scholar and student The field of intelligence is lively on many fronts and this volume provides full coverage on topics such as behavior genetic models evolutionary models cognitive models emotional intelligence practical intelligence and group difference Handbook of Intelligence is largely expanded covering areas such as animal and artificial intelligence as well as human intelligence It fully reflects important theoretical progress made since the early 1980s

Clocking the Mind Arthur R. Jensen,2006-07-10 Mental Chronometry MC comprises a variety of techniques for measuring the speed with which the brain processes information First developed in mid 1800 MC was subsequently eclipsed by more complex and practically useful types of psychometric tests stemming from Alfred Binet This class of mental tests however has no true metric relating the test scores to any specific properties of the brain per se The scores merely represent an ordinal scale only ranking individuals according to their overall performance on a variety of complex mental tasks The resulting scores represent no more than ranks rather than being a true metrical scale of any specific dimension of brain function Such an ordinal scale which merely ranks individuals in some defined population possesses no true scale properties possessing neither a true zero or equal intervals throughout the scale This deficiency obstructs the development of a true natural science of mental ability

The present burgeoning interest in understanding individual differences in mental abilities in terms of the natural sciences biology and the brain sciences in particular demands direct measures that functionally link brain and behavior One such natural ratio scale is time itself the time it takes the brain to perform some elementary cognitive task measured in milliseconds After more than 25 years researching MC Jensen here presents results on an absolute scale showing times for intake of visual and auditory information for accessing short term and long term memory and other cognitive skills as a function of age at yearly intervals from 3 to 80 years The possible uses of MC in neurological diagnosis and the monitoring of drug effects on cognition the chronometric study of special time sensitive talents such as musical performance and presents a theory of general intelligence or g as a function of the rate of oscillation of neural action potentials as measured by chronometric methods Finally Jensen urges the world wide standardization of chronometric methods as necessary for advancing MC as a crucial branch of biopsychological science Provides a different scale to report Mental Chronometry MC findings Argues for the global adoption of an absolute scale as opposed to the traditional ordinal scale An important contribution to MC researchers and psychologists and neuroscientists Motor Skill Acquisition of the Mentally Handicapped M.G. Wade,1986-07-01 Based upon a conference held in Bethesda in 1985 this volume brings together the research and theoretical perspectives of experts in the developmental aspects of motor control coordination and skill in the mentally handicapped This is accomplished within the context of cognition Section I deals with the dynamics of controlling movement skill and the nature of the variables that mediate the learning of motor skills Sections II and III examine the traditional area of research in motor behavior i e the speed of information processing and reaction time paradigms The last section discusses the issue of training to minimize the effects of mental retardation on motor behavior *Encyclopedia of Human Intelligence* Robert J. Sternberg,1995 This two volume set contains over 250 articles of varying lengths dealing with all aspects of human intelligence *Speed of Information Processing and Intelligence* Mark A. Small,1985 *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society* IEEE Engineering in Medicine and Biology Society. Annual Conference,1991 **Information Processing Speed in Clinical Populations** John DeLuca, Jessica H. Kalmar,2013-05-13 Although investigated for over 100 years it is only now that we are beginning to understand how speed of information processing is affected in various clinical populations Processing speed has a major impact on higher level cognitive abilities and is extremely vulnerable to neurological insult and the aging process The importance of processing speed with respect to brain function cognition and overall quality of life is now the focus of a new and exciting body of research in clinical populations This book provides a scholarly and clinically sensitive review of research on processing speed and its issues in clinical populations Readers will come away with an in depth understanding of human information processing speed including its historical development its relationship to other cognitive functions the developmental course of the ability across the lifespan and its impact on everyday life in various clinical populations Other

highlights of the text are its discussion of the speed vs accuracy trade off tools available for measuring processing speed the unfolding research on genetic contributions to processing speed and the latest ideas in rehabilitation With contributing authors who are experts in their fields *Information Processing Speed in Clinical Populations* represents a valuable resource for researchers scholars and clinicians by providing a concise summary of the existing research on processing speed across an array of disciplines and populations *Looking Down on Human Intelligence* Ian Deary,2000-09-21 Why are some people more mentally able than others In an authoritative critical and intergrated series of review essays Professor Ian Deary inquires after the cognitive and biological foundations of human mental ability differences Many accounts of intelligence have examined the structure and number of human mental ability differences and whether they can predict suces in education work and social life Few books have taken psychometric intelligence differences as a starting point and brought together the reductionistic attempts to explain them New to the highly acclaimed Oxford Psychology Series *Looking Down on Human Intelligence* appraises the search for the origins of psychometric intelligence differences in terms of brain function parameters The book provides an original and thought provoking guide to ancient and modern research on one of the most compelling questions in human psychology **Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Biophysical and biochemical measurements. Sensors, lasers and electrooptics. Molecular electronics. Instrumentation. Critical care monitoring. Rehabilitation engineering. Speech, hearing, and vision aids** IEEE Engineering in Medicine and Biology Society. Annual Conference,1991 **School Psychology Review** ,1990 *Polish Psychological Bulletin* ,1996 *The Quarterly Journal of Experimental Psychology* ,2001 **International Journal of Neuroscience** ,1993 **Brain Mechanisms** Francis M. Crinella,Jen Yu,1993 This volume containing papers given in memory of Robert Thompson contains a representative sample of the major trends and issues current in the field of neural and cognitive psychology Four sub themes emerge brain mechanisms in intelligence brain mechanisms in memory and learning mechanisms of neuronal adaptation and brain mechanisms and motivation *Child and Adolescent Development* Danuta Bukatko,2008 This new chronological edition is based on the well established topically organized text by Bukatko and Daehler *Child Development A Thematic Approach* 5 e Addressing physical social and emotional development in a linear fashion this text starts with pre natal development and progresses through birth and the newborn baby infancy and toddlerhood early childhood middle childhood and adolescence Developed to accommodate the more applied focus of courses in nursing parenthood education family studies and human ecology this text benefits from the authors focus on research through an emphasis on developmental themes Five themes on development are found in every chapter and are listed in the chapter opener called out in the margin where the theme is addressed and summarized in aSummary of Developmental Themessection at the end of the chapter The five themes explore nature and nurture sociocultural contexts continuous vs discontinuous development the domains of development and risk or resilience in

development Extensive Contexts of Development chapters for each development stage broaden the scope of the issues discussed by examining the child adolescent within the context of family peers and community Research Applied to Parenting Educationboxes provide practical advice based on research findings and cover such topics as reducing SIDS monitoring TV viewing reciprocal teaching and reading to children Atypical Developmentsections focus on topics related to non normative development including eating disorders autism attention deficit disorder detecting hearing loss depression conduct disorders and post traumatic stress disorder PTSD Summary Tablesare two page graphic timelines that summarize the various milestones of development and show the sequence of the child s development within a given domain infancy early childhood middle childhood adolescence Chapter Opening Vignettesdraw students into real life scenarios by applying and exploring concepts of development Marginal features See for YourselfandWhat Do You Think invite students to critically evaluate and explore further related material on the Online Study Center Additional pedagogy includes section summaries within each chapter and comprehensiveChapter Recapsthat feature aSummary of Developmental Themes aChapter Review and a list ofKey Terms and Concepts

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