

John D. Enderle

Models of Horizontal Eye Movements

Part I: Early Models of Saccades and Smooth Pursuit

Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements

C. A. Brebbia



Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements:

Models of Horizontal Eye Movements, Part I John Enderle, 2022-06-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements The purpose of this book is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away In this book early models of saccades and smooth pursuit are presented The smooth pursuit system allows tracking of a slow moving target to maintain its position on the fovea Models of the smooth pursuit have been developed using systems control theory all involving a negative feedback control system that includes a time delay controller and plant in the forward loop with unity feedback The oculomotor plant and saccade generator are the basic elements of the saccadic system The oculomotor plant consists of three muscle pairs and the eyeball A number of oculomotor plant models are described here beginning with the Westheimer model published in 1954 and up through our 1995 model involving a 4th order oculomotor plant model The work presented here is not an exhaustive coverage of the field but focused on the interests of the author In Part II a state of art model of the saccade system is presented including a neural network that controls the system Table of Contents Introduction Smooth Pursuit Models Early Models of the Horizontal Saccadic Eye Movement System Velocity and Acceleration Estimation 1995 Linear Homeomorphic Saccadic Eye Movement Model

Models of Horizontal Eye Movements, Part II John Enderle, Wei Zhou, 2022-06-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements The purpose of this book is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away

In this book a 2009 version of a state of the art model is presented for horizontal saccades that is 3rd order and linear and controlled by a physiologically based time optimal neural network The oculomotor plant and saccade generator are the basic elements of the saccadic system The control of saccades is initiated by the superior colliculus and terminated by the cerebellar fastigial nucleus and involves a complex neural circuit in the mid brain This book is the second part of a book series on models of horizontal eye movements Table of Contents 2009 Linear Homeomorphic Saccadic Eye Movement Model and Post Saccade Behavior Dynamic and Glissadic Overshoot Neural Network for the Saccade Controller Models of Horizontal Eye Movements Alireza Ghahari, John D. Enderle, 2014-10-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements The purpose of this book series is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away In Part 1 early models of saccades and smooth pursuit are presented A number of oculomotor plant models are described therein beginning with the Westheimer model published in 1954 and up through our 1995 model involving a 4th order oculomotor plant model In Part 2 a 2009 version of a state of the art model is presented for horizontal saccades that is 3rd order and linear and controlled by a physiologically based time optimal neural network In this book a multiscale model of the saccade system is presented focusing on the neural network Chapter 1 summarizes a whole muscle model of the oculomotor plant based on the 2009 3rd order and linear and controlled by a physiologically based time optimal neural network Chapter 2 presents a neural network model of biophysical neurons in the midbrain for controlling oculomotor muscles during horizontal human saccades To investigate horizontal saccade dynamics a neural circuitry including omnipause neuron premotor excitatory and inhibitory burst neurons long lead burst neuron tonic neuron interneuron abducens nucleus and oculomotor nucleus is developed A generic neuron model serves as the basis to match the characteristics of each type of neuron in the neural network We wish to express our thanks to William Pruehsner for drawing many of the illustrations in this book *Models of Horizontal Eye Movements* Alireza Ghahari, John D. Enderle, 2015-02-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements The purpose of this book series is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit

system rather than on how visual information is processed In Part 1 early models of saccades and smooth pursuit are presented A number of oculomotor plant models are described here beginning with the Westheimer model published in 1954 and up through our 1995 model involving a 4th order oculomotor plant model In Part 2 a 2009 version of a state of the art model is presented for horizontal saccades that is 3rd order and linear and controlled by a physiologically based time optimal neural network Part 3 describes a model of the saccade system focusing on the neural network It presents a neural network model of biophysical neurons in the midbrain for controlling oculomotor muscles during horizontal human saccades In this book a multiscale model of the saccade system is presented focusing on a multiscale neural network and muscle fiber model Chapter 1 presents a comprehensive model for the control of horizontal saccades using a muscle fiber model for the lateral and medial rectus muscles The importance of this model is that each muscle fiber has a separate neural input This model is robust and accounts for the neural activity for both large and small saccades The muscle fiber model consists of serial sequences of muscle fibers in parallel with other serial sequences of muscle fibers Each muscle fiber is described by a parallel combination of a linear length tension element viscous element and active state tension generator Chapter 2 presents a biophysically realistic neural network model in the midbrain to drive a muscle fiber oculomotor plant during horizontal monkey saccades Neural circuitry including omnipause neuron premotor excitatory and inhibitory burst neurons long lead burst neuron tonic neuron interneuron abducens nucleus and oculomotor nucleus is developed to examine saccade dynamics The time optimal control mechanism demonstrates how the neural commands are encoded in the downstream saccadic pathway by realization of agonist and antagonist controller models Consequently each agonist muscle fiber is stimulated by an agonist neuron while an antagonist muscle fiber is unstimulated by a pause and step from the antagonist neuron It is concluded that the neural network is constrained by a minimum duration of the agonist pulse and that the most dominant factor in determining the saccade magnitude is the number of active neurons for the small saccades For the large saccades however the duration of agonist burst firing significantly affects the control of saccades The proposed saccadic circuitry establishes a complete model of saccade generation since it not only includes the neural circuits at both the premotor and motor stages of the saccade generator but it also uses a time optimal controller to yield the desired saccade magnitude

Introduction to Biomedical Engineering John Enderle, Joseph Bronzino, 2012 Introduction to Biomedical Engineering is a comprehensive survey text for biomedical engineering courses It is the most widely adopted text across the BME course spectrum valued by instructors and students alike for its authority clarity and encyclopedic coverage in a single volume Biomedical engineers need to understand the wide range of topics that are covered in this text including basic mathematical modeling anatomy and physiology electrical engineering signal processing and instrumentation biomechanics biomaterials science and tissue engineering and medical and engineering ethics Enderle and Bronzino tackle these core topics at a level appropriate for senior undergraduate students and graduate students who are majoring in BME or studying

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Vision Models and Applications to Image and Video Processing Christian J. van den Branden Lambrecht, 2013-03-14 I came to vision science trying to solve an engineering problem I was trying to come up with test and measurement methodologies for digital video systems One of the metrics I wanted to use was some measurement of image quality After some experiments and after an overview of the literature I had to realize that simple computational metrics such as the mean square error are not very effective for this purpose This led me to study notions of vision science and vision modeling As an engineer I found it fascinating Vision science uses computational tools and modeling techniques that are very similar to what we use in signal processing yet it brings you to a new domain that lies at the intersection of engineering biology and cognitive psychology Over the years vision science has made tremendous contributions to engineering and to the field of image processing in particular Such contributions include half toning matrices for the printing industry color correction for digital cameras quantization matrices for image coding As imaging devices are becoming commodities the impact of vision science is becoming even more significant This book is meant to appeal to an engineering audience It is an introduction to vision science and to the design and application of vision models in engineering To achieve this goal we have chosen to organize the book around the main components of vision models

David A. Robinson's Modeling the Oculomotor Control System, 2022-01-22 Modelling The Oculomotor Systems Volume 269 in the Progress in Brain Research series highlights new advances in the field with this new

volume presenting interesting chapters on topics including The function and phylogeny of eye movements The behavior of motoneurons Statics of plant mechanics Dynamics of plant mechanics The functional operation of the vestibulo ocular reflex Basic framework of the vestibulo ocular reflex Oculomotor signals Signal processing in the vestibulo ocular reflex Plasticity and repair of the vestibulo ocular reflex The behavior of the optokinetic system Models of the optokinetic system Neurophysiology of the optokinetic system and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Progress in Brain Research serial Includes the latest information on Modelling The Oculomotor Systems **Models of the Visual System** George K. Hung, Kenneth C. Ciuffreda, 2013-11-11 Some of the best vision scientists in the world in their respective fields have contributed to chapters in this book They have expertise in a wide variety of fields including bioengineering basic and clinical visual science medicine neurophysiology optometry and psychology Their combined efforts have resulted in a high quality book that covers modeling and quantitative analysis of optical neurosensory oculomotor perceptual and clinical systems It includes only those techniques and models that have such fundamentally strong physiological control system and perceptual bases that they will serve as foundations for models and analysis techniques in the future The book is aimed first towards seniors and beginning graduate students in biomedical engineering neurophysiology optometry and psychology who will gain a broad understanding of quantitative analysis of the visual system In addition it has sufficient depth in each area to be useful as an updated reference and tutorial for graduate and post doctoral students as well as general vision scientists **Modelling in Medicine and Biology VIII** C. A. Brebbia, 2009 Featuring contributions from the eighth International Conference on Modelling in Medicine and Biology this volume covers a broad spectrum of topics including the application of computers to simulate biomedical phenomena It will be of interest to medical and physical scientists and engineers

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Table of Contents Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements

1. Understanding the eBook Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - The Rise of Digital Reading Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Advantages of eBooks Over Traditional Books
2. Identifying Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - User-Friendly Interface
4. Exploring eBook Recommendations from Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Personalized Recommendations

- Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements User Reviews and Ratings
- Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements and Bestseller Lists
- 5. Accessing Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements Free and Paid eBooks
 - Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements Public Domain eBooks
 - Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements eBook Subscription Services
 - Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements Budget-Friendly Options
- 6. Navigating Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements eBook Formats
 - ePub, PDF, MOBI, and More
 - Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements Compatibility with Devices
 - Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Highlighting and Note-Taking Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Interactive Elements Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
- 8. Staying Engaged with Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
- 9. Balancing eBooks and Physical Books Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Setting Reading Goals Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements

- Fact-Checking eBook Content of Models Of Horizontal Eye Movements Models Of Horizontal Eye Movements
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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