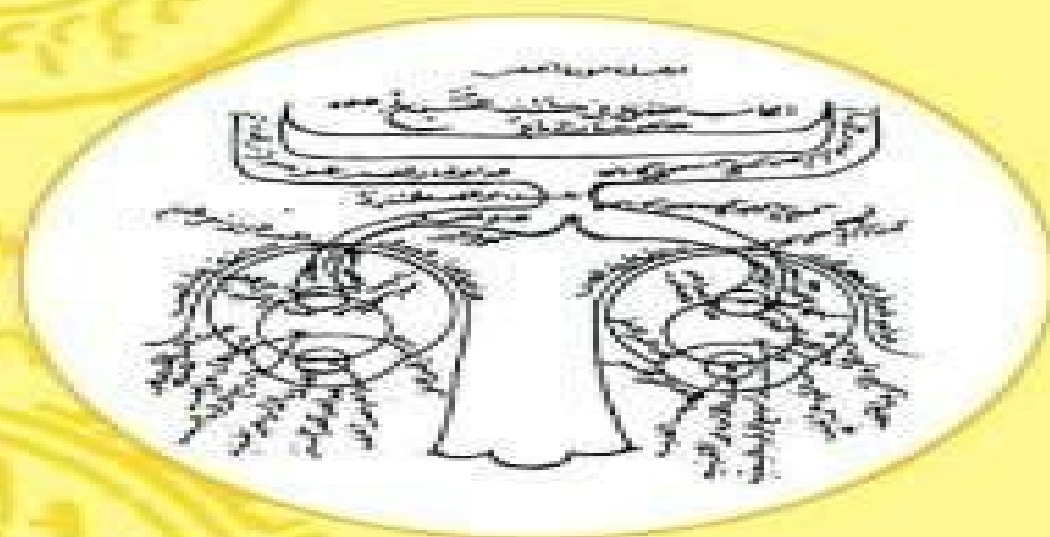


READING AS A PERCEPTUAL PROCESS



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North-Holland

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Reading As A Perceptual Process

Geoffrey Underwood



Reading As A Perceptual Process:

Reading as a Perceptual Process A. Kennedy, D. Heller, J. Pynte, Ralph Radach, 2000-08-04 This book is divided into five sections dealing with various fundamental issues in current research attention information processing and eye movement control the role of phonology in reading syntax and discourse processing and computational models and simulations Control and measurement of eye movements form a prominent theme in the book A full understanding of the where and when of eye movement control is a prerequisite of any complete theory of reading since it is precisely at this point that perceptual and cognitive processes interact Amongst the hot topics included are the relation between parafoveal and foveal visual processing of linguistic information the role of phonology in fluent reading and the emergence of statistical tuning approaches to sentence parsing Also discussed in the book are three attempts to develop quantitative models of reading which represent a significant departure in theory building and a quantum step in the maturation of reading research Much of the work reported in the book was first presented at the 5th European Workshop on Language Comprehension organised in April 1998 which was held at the CNRS Luminy Campus near Marseilles All contributions summarise the state of the art in the relevant areas of reading research

Basic Processes in Reading David LaBerge, S. Jay Samuels, 2017-03-27 Originally published in 1977 this volume contains the most recent theoretical views and experimental findings by prominent psychologists at the time working in areas they considered to be most basic to the reading processes The material will still be of value to people interested in applied and basic aspects of reading as well as those concerned with language processing and information processing in general The volume divides conveniently into two areas perception and comprehension The initial chapters deal with the perceptual processes involved in reading The second half of the volume delves into the area of comprehension The interested reader will find a wide variety of topics covered in the volume that reflect the amazingly wide range of cognitive functions that are part of the reading process

Eye Movements and Information Processing During Reading Ralph Radach, Alan Kennedy, Keith Rayner, 2004 Measurement and analysis of eye movements are two of the most powerful ways to study the workings of the human mind This Special Issue on eye movements and information processing in reading presents an overview of experimental research based on this methodology Eye movements provide a unique opportunity to examine principles of human information processing in a well structured visual environment while people engage in a natural cognitive task At the same time oculomotor measures can be used as a tool to develop and test psycholinguistic hypotheses about the processing of written language The papers in this issue contribute to both aspects addressing issues that dominate current debates in the field Seen from the angle of visual information processing a major theme is the role played by parafoveal information for different types and levels of processing and for oculomotor control in reading This includes effects of visual and linguistic word properties on the selection of words for fixation and the specification of saccade amplitudes Clearly the most controversial question in this context concerns the allocation of

attention with positions ranging from a sequentially moving spotlight to a gradient of spatially distributed processing Related to this is the issue of serial vs parallel word processing and the fundamental question as to what extent the duration of fixations in reading is related to lexical processing Taking a psycholinguistic perspective the topics addressed include several levels of language processing from orthography to pragmatic information in sentence reading New approaches to the study of morphologically complex words are reported together with novel work revealing the complex nature of the apparently accessible but elusive concept of word frequency Other papers reflect current theoretical discussions centered on the development of computational models of the reading process and contribute to the empirical base of these discussions Taken together this collection of papers supplemented by an introduction to the field and a commentary on major issues presents a comprehensive and up to date perspective on a research area currently characterised by numerous theoretical and empirical disputes The papers will be of particular appeal to readers interested in basic and applied psycholinguistics attention and visual perception motor control and the modelling of complex cognitive processes

Perceptual Processes in Reading Radomir Gaspar, David D. Brown, 1973 **The Reading Process** William Anton Smith, 1922 **The Perceptual Factors in Reading** Francis Marion Hamilton, 1907 **Basic Processes in Reading** David LaBerge, S. Jay Samuels, 2017-03-27

Originally published in 1977 this volume contains the most recent theoretical views and experimental findings by prominent psychologists at the time working in areas they considered to be most basic to the reading processes The material will still be of value to people interested in applied and basic aspects of reading as well as those concerned with language processing and information processing in general The volume divides conveniently into two areas perception and comprehension The initial chapters deal with the perceptual processes involved in reading The second half of the volume delves into the area of comprehension The interested reader will find a wide variety of topics covered in the volume that reflect the amazingly wide range of cognitive functions that are part of the reading process

Handbook of Perception: Perceptual Processing v. 9 SWAINE, 2014-06-28 **Handbook of Perception Perceptual Processing v 9** **Neuropsychological and Cognitive Processes in Reading**

Francis J. Pirozzolo, Merlin C. Wittrock, 2013-10-22 **Neuropsychological and Cognitive Processes in Reading** explores reading and reading disabilities within the context of cognitive psychology and neuropsychology Emphasis is on the roles of brain mechanisms in reading and reading disturbances In the areas of perception and cognition theoretical models of the reading process are used to highlight the various psychological processes involved in the act of skilled reading Comprised of 12 chapters this volume begins with an introduction to the fundamental processes of reading giving particular attention to a psychological theory that builds on two concepts that the basic processes of reading are few in number and that they are separable from one another A useful and testable information processing model of reading that consists of three separable fundamental processes decoding word meaning and sentence comprehension is described Subsequent chapters deal with some of the external and internal factors involved in reading a model of disorders of reading comprehension the alexias the

neuropsychological test performance of brain damaged and non brain damaged dyslexic children and the problem of subtypes of learning disability Eye movements and perceptual spans in reading are also discussed along with reading comprehension and the problem of agrammatism The final chapter analyzes the factors that influence recovery from alexia This book will be of interest to neuropsychologists and those engaged in neurolinguistics psycholinguistics cognitive psychology and educational psychology

Writing Systems, Reading Processes, and Cross-Linguistic Influences Hye K. Pae, 2018-07-15 This book provides readers with a unique array of scholarly reflections on the writing systems of Chinese Japanese and Korean in relation to reading processes and data driven interpretations of cross language transfer Distinctively broad in scope topics addressed in this volume include word reading with respect to orthographic phonological morphological and semantic processing as well as cross linguistic influences on reading in English as a second language or a foreign language Given that the three focal scripts have unique orthographic features not found in other languages Chinese as logography Japanese with multi scripts and Korean as non Roman alphasyllabary chapters expound script universal and script specific reading processes As a means of scaling up the body of knowledge traditionally focused on Anglocentric reading research the scientific accounts articulated in this volume importantly expand the field's current theoretical frameworks of word processing to theory building with regard to these three languages

The Oxford Handbook of Eye Movements Simon Livensedge, Iain Gilchrist, Stefan Everling, 2011-08-18 In the past few years there has been an explosion of eye movement research in cognitive science and neuroscience The Oxford Handbook of Eye Movements provides the first comprehensive review of the entire field of eye movement research This book is the definitive reference work in this field

Visual Word Recognition: Meaning and context, individuals and development James S. Adelman, 2012 Word recognition is the component of reading which involves the identification of individual words Together the two volumes of Visual Word Recognition offer a state of the art overview of contemporary research from leading figures in the field This second volume examines how research on word recognition has been linked to the study of concepts and meaning such as how morphemes affect word recognition how the meaning of words affects their processing and the effect of priming on the processing of words The book also discusses eye movement research the reading of whole sentences and passages how bilinguals recognize words in different languages individual differences in visual word recognition and the development of visual word recognition difficulties in developmental dyslexia The two volumes serve as a state of the art comprehensive overview of the field They are essential reading for researchers of visual word recognition and students on undergraduate and postgraduate courses in cognition and cognitive psychology specifically the psychology of language and reading They will also be of use to those working in education and speech language therapy

Visual Word Recognition Volume 2 James Adelman, 2012-08-21 Word recognition is the component of reading which involves the identification of individual words Together the two volumes of Visual Word Recognition offer a state of the art overview of contemporary research from leading figures in the field This

second volume examines how research on word recognition has been linked to the study of concepts and meaning such as how morphemes affect word recognition how the meaning of words affects their processing and the effect of priming on the processing of words The book also discusses eye movement research the reading of whole sentences and passages how bilinguals recognize words in different languages individual differences in visual word recognition and the development of visual word recognition difficulties in developmental dyslexia The two volumes serve as a state of the art comprehensive overview of the field They are essential reading for researchers of visual word recognition and students on undergraduate and postgraduate courses in cognition and cognitive psychology specifically the psychology of language and reading They will also be of use to those working in education and speech language therapy

Handbook of Individual Differences in Reading Peter Afflerbach, 2015-08-11 The central unifying theme of this state of the art contribution to research on literacy is its rethinking and reconceptualization of individual differences in reading Previous research focused on cognitive components of reading signaled the need for ongoing work to identify relevant individual differences in reading to determine the relationships of individual differences to reading development and to account for interactions among individual differences Addressing developments in each of these areas this volume also describes affective individual differences and the environments in which individual differences in reading may emerge operate interact and change The scant comprehensive accounting of individual differences in reading is reflected in the nature of reading instruction programs today the outcomes that are expected from successful teaching and learning and the manner in which reading development is assessed An important contribution of this volume is to provide prima facie evidence of the benefits of broad conceptualization of the ways in which readers differ The *Handbook of Individual Differences in Reading* moves the field forward by encompassing cognitive non cognitive contextual and methodological concerns Its breadth of coverage serves as both a useful summary of the current state of knowledge and a guide for future work in this area

The Impact of Learning to Read on Visual Processing Tânia Fernandes, Regine Kolinsky, 2016-01-26 Reading is at the interface between the vision and spoken language domains An emergent bulk of research indicates that learning to read strongly impacts on non linguistic visual object processing both at the behavioral level e g on mirror image processing enantiomorphy and at the brain level e g inducing top down effects as well as neural competition effects Yet many questions regarding the exact nature locus and consequences of these effects remain hitherto unanswered The current Special Topic aims at contributing to the understanding of how such a cultural activity as reading might modulate visual processing by providing a landmark forum in which researchers define the state of the art and future directions on this issue We thus welcome reviews of current work original research and opinion articles that focus on the impact of literacy on the cognitive and or brain visual processes In addition to studies directly focusing on this topic we will consider as highly relevant evidence on reading and visual processes in typical and atypical development including in adult people differing in schooling and literacy as well as in

neuropsychological cases e g developmental dyslexia We also encourage researchers on nonhuman primate visual processing to consider the potential contribution of their studies to this Special Topic

How to Read Effectively and Efficiently G. C. Ahuja, Pramila Ahuja, 1991-09-01 Provide useful insight into the principle of accurate reading Evaluates the characteristics of a good reader Offer handy tips to improve reading skills Cover A Tentative Analysis of Learning to Read with a Study of the Reading Ability of College Freshmen Roy L. Stockrahm, 1927 Visual Perception M. D. Vernon, 2013-09-19 Originally published in 1937 this book presents a comprehensive analysis of the nature of visual perception The text is divided into four main sections the first part focuses on tracing the phenomenal development of the perceptual process the second deals with the relation of the perceptual content to some of the more important affective and quasi affective individual states the third discusses the objective structure of the visual field the fourth briefly describes some aspects of the genetic development of the perceptual content in childhood An appendix section on the tachistoscope and indices are also included This book will be of value to anyone with an interest in perspectives on the nature of visual perception *Visual Perception* Steven Yantis, 2001 *Cognitive Processes in Eye Guidance* Geoffrey Underwood, 2005-07-28 Whether reading looking at a picture or driving how is it that we know where to look next how does the human visual system calculate where our gaze should be directed in order to achieve our cognitive aims This book brings together leading vision scientists studying eye movements across a range of activities such as reading driving computer activities and chess It provides groundbreaking new research that will help us understand how it is that we know where to move our eyes and thereby better understand the cognitive processes underlying these activities

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