



# Models Of Short Term Memory

**Michael W. Eysenck, Mark T. Keane**



## **Models Of Short Term Memory:**

**Models Of Short-Term Memory** Susan E. Gathercole,2013-06-20 This volume offers a collection of theoretical perspectives in the area of short term memory It contains overviews of models of short term memory with particular emphasis placed on the detailed description of the functioning of the models The volume represents both computational approaches and theories expressed in more traditional verbal form Models represented in the volume also cover both developmental and neuropsychological perspectives on short term memory This book should appeal to active researchers in the area of memory to graduate students and to academics who wish to update their knowledge of this fast developing area of research and theory Final year undergraduates may also find this book of interest Repetition and Rehearsal Mechanisms in Models for Short-term Memory Robert A. Bjork,1969 The paper presents a theoretical discussion of the probable general mechanisms of repetition and rehearsal in short term memory It points out the implications of the various mechanisms and evaluates their relative adequacies It examines questions on the representation of rehearsal in models for short term memory Author *Models of Thought* Herbert Alexander Simon,1979-01-01 Nobel Laureate Herbert A Simon has in the past quarter century been in the front line of the information processing revolution in fact to a remarkable extent his and his colleagues contributions have written the history of that revolution in cognitive psychology Research in this burgeoning new branch of knowledge seeks to describe with precision the workings of the human mind in terms of a small number of basic mechanisms organized into strategies Newly developed computer languages express theories of mental processes so that computers can then simulate the predicted human behavior This book brings together papers dating from the start of Simon s career to the present Its focus is on modeling the chief components of human cognition and on testing these models experimentally After considering basic structural elements of the human information processing system especially search selective attention and storage in memory Simon builds from these components a system capable of solving problems inducing rules and concepts perceiving and understanding These essays describe a relatively austere simple and unified processing system capable of highly complex and various tasks They provide strong evidence for an explanation of human thinking in terms of basic information processes **Interactions Between Short-Term and Long-Term Memory in the Verbal Domain** Annabel Thorn, Mike Page,2008-08-15 The relationship between short and long term memory systems is an issue of central concern to memory theorists This book is the first single publication to comprehensively address this key issue **Models of Human Memory** Donald A. Norman,1970 *Models of Human Memory* Donald A. Norman,2013-10-22 Models of Human Memory provides an overview of the state of knowledge on human memory models The book begins with an introductory chapter on the basic stages of the memory system and the historical roots of memory models The remaining chapters are organized into five parts Part I on memory systems covers topics such as a system for perception and memory multi trace strength theory of memory and a model for postperceptual verbal memory that postulates a single memory store with multiple copies called

replicas created in memory by rehearsal processes Part II presents studies phoneme storage and word recognition Part III on memory for associations examines the storage retrieval theory for the memorizing processes and presents simple model of short term memory STM for paired associates Part IV on storage and retrieval mechanisms deals with mechanisms of repetition and rehearsal in short term memory models of recall and recognition and memory search models Part V presents a theory of human long term associative memory and examines conceptual and methodological interactions between information processing investigations of cognitive activity and attempts to build models of memory

**Handbook of Neuroscience for the Behavioral Sciences, Volume 1** Gary G. Berntson, John T. Cacioppo, 2009-10-12 Handbook of Neuroscience for the Behavioral Sciences Volume 1 As technology has made imaging of the brain noninvasive and inexpensive nearly every psychologist in every subfield is using pictures of the brain to show biological connections to feelings and behavior Handbook of Neuroscience for the Behavioral Sciences Volume I provides psychologists and other behavioral scientists with a solid foundation in the increasingly critical field of neuroscience Current and accessible this volume provides the information they need to understand the new biological bases research tools and implications of brain and gene research as it relates to psychology

Long-Term Memory Problems in Children and Adolescents Milton J. Dehn, 2010-08-02 This book will be a valuable resource for psychologists and educators who work with children or adolescents who are having difficulties with memory and learning Translating theory and research into practice is a talent that Dr Dehn possesses and we will benefit from his professional skills From the Foreword by Daniel C Miller PhD ABPP ABSNP NCSP AN INDISPENSABLE GUIDE THAT EXAMINES THE EFFECT OF LONG TERM MEMORY FUNCTIONS ON CHILDREN S LEARNING Long Term Memory Problems in Children and Adolescents Assessment Intervention and Effective Instruction is the first book of its kind for psychologists school psychologists and special education teachers who need an overview of long term memory as it relates to learning and education It presents the best practices for assessing long term memory functions as well as selecting and using evidence based instructional practices with memory impaired students This useful and timely guide bridges theory and practice to provide professional guidance with coverage of Risk factors that can lead to long term memory impairments How long term memory relates to other types of memory The subcomponents and processes of long term memory and how they relate to academic achievement What is known about the neuroanatomy of how memories are formed The developmental trajectory of memory and learning Common types of memory dysfunction Memory assessment strategies interventions for memory problems and instructional practices that support memory Author Milton Dehn draws on his extensive experience as a trainer and workshop presenter school psychologist and educator to present both the theory and research on long term memory in children and adolescents in this book Specific step by step guidance and hands on case studies enable professionals to identify how memory can be assessed as well as the interventions that can be linked to the results of the assessment

**Cognitive Models of Memory** Martin A. Conway, 1997 The chapters of this

volume evaluate models of the short term retention of knowledge conceptual knowledge autobiographical knowledge transitory mental representations the neurobiological basis of memory and age related changes in human memory

**Learning, Memory, and Conceptual Processes** Walter Kintsch,1970 *Models of Working Memory* Akira Miyake,Priti Shah,1999-04-13 This volume offers a much needed forum for comparing and contrasting existing models of working memory

**Models of Short-Term Memory: A Critical Review** Richard S. Saunders,M. Gregory Smith,Warren H. Teichner,NEW MEXICO STATE UNIV UNIVERSITY PARK DEPT OF PSYCHOLOGY.,1974 Recent models of short term memory are critically reviewed for their possible applicability to training techniques Although many of the models provide reasonable ad hoc descriptions of memory data none of them allow for an a priori quantitative prediction At a qualitative level they say no more than the empirical phenomena indicate qualitatively This may not be a serious lack from the viewpoint of the purposes for which the models were developed but it does provide a lack from the viewpoint of use for training Suggestions are made toward further research and toward the possibility of developing models aimed at specific classes of training

**Functional Aspects of Human Memory** Royal Society (Great Britain). Discussion Meeting,Donald Eric Broadbent,1983 *Working Memory and Academic Learning* Milton J. Dehn,2011-01-04 Equipping school and child psychologists and neuropsychologists with critical information on the role of working memory in learning and achievement Working Memory and Academic Learning offers guidance on assessment tools interventions and current evidence based best practices Its specific step by step guidance and hands on case studies enables you to identify how working memory relates to academic attainment and how to apply this knowledge in professional practice

**Cognitive Psychology** Michael W. Eysenck,Mark T. Keane,2005 This fifth edition of the best selling international cognitive psychology textbook has been substantially updated and restructured to reflect new developments in cognitive psychology and made more student friendly Established approaches covered in depth include Experimental cognitive psychology Cognitive science with its focus on modelling Cognitive neuropsychology with its focus on cognition following brain damage Extensive new material in this edition includes Cognitive neuroscience approaches such as brain scanning and imaging studies which illustrate the principles of brain function New material on consciousness Throughout the new material is fully integrated with more traditional approaches to create a comprehensive coherent and totally current overview of perception attention memory concepts language problem solving judgement and reasoning A two colour design plus a rich array of supplementary multimedia materials make this edition more accessible and entertaining for students The multimedia materials include A PowerPoint lecture course and MCQ Test Bank free to qualifying adopters A unique web based Student Learning Program This is an interactive revision program incorporating a rich array of multimedia resources including interactive exercises and demonstrations and active reference links to journal articles This is offered on a subscription basis to departments adopting the text A free demonstration of a sample chapter is available to potential subscribers at <http://www.psypress.com/ek5> The

American Journal of Psychology Granville Stanley Hall, Edward Bradford Titchener, Karl M. Dallenbach, Madison Bentley, Edwin Garrigues Boring, Margaret Floy Washburn, 1977      **Annals of the New York Academy of Sciences**  
Thomas Lincoln Casey, Gilbert Van Ingen, Charles Lane Poor, Edmund Otis Hovey, Ralph Winfred Tower, 2003 Records of meetings 1808 1916 in v 11 27      Robotica , 1992      **Parallel Models of Associative Memory** Geoffrey E. Hinton, James A. Anderson, 1989 This update of the 1981 classic on neural networks includes new commentaries by the authors that show how the original ideas are related to subsequent developments As researchers continue to uncover ways of applying the complex information processing abilities of neural networks they give these models an exciting future which may well involve revolutionary developments in understanding the brain and the mind developments that may allow researchers to build adaptive intelligent machines The original chapters show where the ideas came from and the new commentaries show where they are going      **Catalog and Announcement of North Dakota Agricultural College for ...** , 1926

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