

# EQUIVALENCE RELATIONS and BEHAVIOR: A RESEARCH STORY

How does the work of Sidman and his coworkers on equivalence relations fit into science and into life? Why were the experiments really done (the Journals never let you tell the whole story)? How did the researchers feel about what they were doing? Much new material, along with reprints, shows the ups and downs, moments of joy along with frustrations, intellectual triumphs and puzzles, intricacies of the reasoning process—and, of course, data. Clearly, Sidman is uncomfortable without data; he has spent his life gathering new data, thinking about it, and working out the next steps. Here is his story.

## ABOUT THE AUTHOR ...

Murray Sidman has been contributing to basic and applied behavior analysis since 1952. His *Tactics of Scientific Research*, published in 1960, is still in use, with its forceful presentation of the conflict between experimental and statistical analysis in the study of behavior. His *Neuroanatomy: a Programmed Text*, written with his brother and published in 1965, is still a lifesaver for medical students. In *Coercion and its Fallout* (1989), Sidman chronicled a world in which human affairs are dominated by coercive practices. This general presentation is proving popular in the undergraduate Psychology course. He has published over a hundred scientific papers, and his retirement from Academe seems not to have diminished his involvement with research.

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# Equivalence Relations And Behavior A Research Story

**Murray Sidman**



## **Equivalence Relations And Behavior A Research Story:**

Equivalence Relations and Behavior Murray Sidman, 1994

## **Stimulus Class Formation in Humans and Animals**

T.R. Zentall, P.M. Smeets, 1996-10-24 Stimulus class formation has been studied independently by two groups of researchers. One group has come out of a learning theory approach while the second has developed out of a behavior analytic tradition. The purpose of the present volume is to further establish the ties between these two research areas while allowing for differences in approach to the questions asked. The book is loosely organized around four themes. The first two sections deal with what constitutes functional and equivalence classes in animals and humans. In the third section the authors attempt to identify stimulus control variables that contribute to the formation of equivalence classes. The last section deals with the complex issue of the role of verbal behavior in equivalence classes. The goal of the book is to provide the reader with a better understanding of the current state of research and theory in stimulus class formation. It is also hoped that it will stimulate research into how and under what conditions stimulus classes can form.

## **The Wiley Handbook of Contextual Behavioral Science** Robert D. Zettle, Steven C. Hayes, Dermot Barnes-Holmes, Anthony Biglan, 2016-01-19

The Wiley Handbook of Contextual Behavioral Science describes the philosophical and empirical foundation of the contextual behavioral science movement. It explores the history and goals of CBS, explains its core analytic assumptions, and describes Relational Frame Theory as a research and practice program. This is the first thorough examination of the philosophy, basic science, applied science, and applications of Contextual Behavioral Science. Brings together the philosophical and empirical contributions that CBS is making to practical efforts to improve human wellbeing. Organized and written in such a way that it can be read in its entirety or on a section by section basis, allowing readers to choose how deeply they delve into CBS. Extensive coverage of this wide ranging and complex area that encompasses both a rich basic experimental tradition and in depth clinical application of that experimental knowledge. Looks at the development of RFT and its implications for alleviating human suffering.

*Controversial Therapies for Autism and Intellectual Disabilities* Richard M. Foxx, James A.

Mulick, 2015-10-14 One of the largest and most complex human services systems in history has evolved to address the needs of people with autism and intellectual disabilities yet important questions remain for many professionals, administrators, and parents. What approaches to early intervention, education, treatment, therapy, and remediation really help those with autism and other intellectual disabilities improve their functioning and adaptation? Alternatively, what approaches represent wastes of time, effort, and resources? *Controversial Therapies for Autism and Intellectual Disabilities* 2nd Edition brings together leading behavioral scientists and practitioners to shed much needed light on the major controversies surrounding these questions. Expert authors review the origins, perpetuation, and resistance to scrutiny of questionable practices and offer a clear rationale for appraising the quality of various services. The second edition of *Controversial Therapies for Autism and Intellectual Disabilities* has been fully revised and updated and includes entirely new chapters on psychology fads, why

applied behavioral analysis is not a fad rapid prompting relationship therapies the gluten free casein free diet evidence based practices state government regulation of behavioral treatment teaching ethics and a parents primer for autism treatments

**Learning As Self-organization** Karl H. Pribram, Joseph S. King, 2013-06-17 A year before his death B F Skinner wrote that There are two unavoidable gaps in any behavioral account one between the stimulating action of the environment and the response of the organism and one between consequences and the resulting change in behavior Only brain science can fill those gaps In doing so it completes the account it does not give a different account of the same thing This declaration ended the epoch of radical behaviorism to the extent that it was based on the doctrine of the empty organism the doctrine that a behavioral science must be constructed purely on its own level of investigation However Skinner was not completely correct in his assessment Brain science on its own can no more fill the gaps than can single level behavioral science It is the relation between data and formulations developed in the brain and the behavioral sciences that is needed This volume is the result of The Fourth Appalachian Conference on Behavioral Neurodynamics the first three of which were aimed at filling Skinner s first gap Taking the series in a new direction the aim of the fourth and subsequent conferences is to explore the second of the gaps in the behavioral account noted by Skinner The aim of this conference was to explore the aphorism The motivation for learning is self organization In keeping with this aim and in the spirit of previous events this conference s mission was to acquaint scientists working in one discipline with the work going on in other disciplines that is relevant to both As a result it brought together those who are making advances on the behavioral level mainly working in the tradition of operant conditioning and those working with brains mainly amygdala hippocampus and far frontal cortex

**Artificial General Intelligence** Patrick Hammer, Marjan Alirezaie, Claes Strannegård, 2023-05-23 This book constitutes the refereed proceedings of the 16th International Conference on Artificial General Intelligence AGI 2023 held in Stockholm Sweden in June 2023 The 35 full papers and one short paper presented in this book were carefully reviewed and selected from 72 submissions The papers cover topics from foundations of AGI to AGI approaches and AGI ethics to the roles of systems biology goal generation and learning systems and so much more

**The Evolution of Cognition** Cecilia M. Heyes, Ludwig Huber, 2000 In the last decade evolutionary psychology has come to refer exclusively to research on human mentality and behavior motivated by a nativist interpretation of how evolution operates This book encompasses the behavior and mentality of nonhuman as well as human animals and a full range of evolutionary approaches Rather than a collection by and for the like minded it is a debate about how evolutionary processes have shaped cognition The debate is divided into five sections Orientations on the phylogenetic ecological and psychological comparative approaches to the evolution of cognition Categorization on how various animals parse their environments how they represent objects and events and the relations among them Causality on whether and in what ways nonhuman animals represent cause and effect relationships Consciousness on whether it makes sense to talk about the evolution of consciousness and whether the phenomenon can be

investigated empirically in nonhuman animals and Culture on the cognitive requirements for nongenetic transmission of information and the evolutionary consequences of such cultural exchange Contributors Bernard Balleine Patrick Bateson Michael J Beran M E Bitterman Robert Boyd Nicola Clayton Juan Delius Anthony Dickinson Robin Dunbar D P Griffiths Bernd Heinrich Cecilia Heyes William A Hillix Ludwig Huber Nicholas Humphrey Masako Jitsumori Louis Lefebvre Nicholas Mackintosh Euan M Macphail Peter Richerson Duane M Rumbaugh Sara Shettleworth Martina Siemann Kim Sterelny Michael Tomasello Laura Weiser Alexandra Wells Carolyn Wilczynski David Sloan Wilson Derived Relational Responding Applications for Learners with Autism and Other Developmental Disabilities Ruth Anne Rehfeldt, Yvonne

Barnes-Holmes, 2009-04-02 By implementing the techniques described in Derived Relational Responding techniques based on a breakthrough new understanding of how humans acquire and use language clinicians can make significant progress with their clients with autism and other developmental disabilities limiting the loss of cognitive and social functioning that typically results from these conditions **Functional Analysis in Clinical Treatment** Peter Sturmey, 2020-03-21 Much of

clinical psychology relies upon cognitive behavior therapy to treat clinical disorders via attempting to change thinking and feeling in order to change behavior Functional approaches differ in that they focus on context and the environmental influence on behavior thoughts and feelings This second edition of Functional Analysis in Clinical Treatment updates the material in keeping with DSM 5 and ICD 10 and provides 40% new information including updated literature reviews greater detail in the functional analysis assessment sections of each chapter two new chapters on autism spectrum disorders and chronic health problems and examples of worked assessments such as interview transcripts ABC charts and observational data Depression as a Cultural Phenomenon in Postmodern Society Yara Nico, Jan Luiz Leonardi, Larissa

Zeggio, 2020-12-10 This book presents an analysis of contemporary society based on the experimental and interpretative models produced by the experimental analysis of behavior in order to think about the ways in which current social contingencies can affect the life of individuals making them more depressive It addresses the phenomenon of depression in a broad way From its conception as a scientific concept to sociological explanations to explain its emergence the book presents in a very well founded way the necessary knowledge to clarify understand and seek treatment and prevention for this major social evil The authors begin with a description of the current diagnostic parameters of major depressive disorder followed by alarming global epidemiological data showing that depression has affected all races social classes genders and creeds They then address the topic departing from an approach based on the experimental analysis of behavior but also in dialogue with other philosophical and conceptual traditions to show how current social relationships contribute to the development of major depressive disorder Depression as a Cultural Phenomenon in Postmodern Society will be a valuable tool for health professionals looking for a wider approach to depression prevention and treatment An approach that looks not only to the isolated individual but takes into account the whole social context that contributes to cause or to prevent major depressive

disorder      **Behavior Modification** Garry Martin, Joseph J. Pear, 2019-02-05 Behavior Modification What It Is and How to Do It is a comprehensive practical presentation of the principles of behavior modification and guidelines for their application. Appropriate for university students and for the general reader, it teaches forms of behavior modification ranging from helping children learn necessary life skills to training pets to solving personal behavior problems. It teaches practical how-to skills including discerning long-term effects, designing, implementing, and evaluating behavioral programs, interpreting behavioral episodes, observing and recording behaviors, and recognizing instances of reinforcement, extinction, and punishment. Behavior Modification is ideal for courses in Behavior Modification, Applied Behavior Analysis, Behavior Therapy, the Psychology of Learning, and related areas, and for students and practitioners of various helping professions such as clinical psychology, counselling, education, medicine, nursing, occupational therapy, physiotherapy, psychiatric nursing, psychiatry, social work, speech therapy, and sport psychology who are concerned directly with enhancing various forms of behavior development. The material is presented in an interesting, readable format that assumes no prior knowledge of behavior modification or psychology. Specific cases and examples clarify issues and make the principles real. Guidelines throughout provide a ready source to use as a reference in applying the principles. Online resources, including an instructor's manual, are available at [www.routledge.com/9780815366546](http://www.routledge.com/9780815366546).      The Routledge Companion to Consumer Behavior Analysis Gordon R.

Foxall, 2015-08-20 The Routledge Companion to Consumer Behavior Analysis provides a unique and eclectic combination of behavioral, cognitive, and environmental perspectives to illuminate the real-world complexities of consumer choice in a marketing-oriented economy. Edited by a leading authority in the field, the contributing authors have created a unique anthology for understanding consumer preference by bringing together the very latest research and thinking in consumer behavior analysis. This comprehensive and innovative volume ranges over a broad, multi-disciplinary perspective from economic psychology, behavioral psychology, and experimental economics, but its chief focus is on the critical evaluation of consumer choice in the natural settings of affluent, marketing-oriented economies. By focussing on human economic and social choices which involve social exchange, it explores and reveals the enormous potential of consumer behavior analysis to illuminate the role of modern marketing-oriented business organizations in shaping and responding to consumer choice. This will be of particular interest to academics, researchers, and advanced students in marketing, consumer behavior, behavior analysis, social psychology, behavioral economics, and behavioral psychology.      **The Essential Guide to Passing the Board Certified Behavior Analyst® (BCBA) Exam** Rondy Yu, Aaron Haddock, Aaron D. Haddock, 2023-04-05 The only all-in-one exam preparation resource for aspiring behavior analysts, this indispensable guide, written by noted experts, delivers the knowledge required to successfully pass this difficult certification exam. It includes research-based recommendations for preparing for the exam, a comprehensive yet succinct review of the Behavior Analyst Certification Board's BACB Fifth Edition of the Task List items, and requisite information about the certification process. This comprehensive study aid addresses

philosophical underpinnings concepts and principles measurement data display and interpretation experimental design ethics behavior assessment behavior change procedures selecting and implementing interventions and personnel supervision and management Each chapter covers everything you need to know to pass the exam and includes end of chapter questions to check your knowledge The review concludes with a full length practice test to get you ready for exam day With 370 practice questions detailed review content and answer rationales this study aid empowers you with the tools and materials to study your way and the confidence to pass the first time guaranteed Know that you re ready Know that you ll pass with Springer Publishing Exam Prep Key Features Reflects the latest exam content outline Provides a comprehensive yet concise review of essential knowledge for the exam Complete coverage of the BACB s Fifth Edition Task List items Research based strategies for exam success Resources for further learning and professional development Includes end of chapter Q A and two full length practice tests with detailed rationales Boosts your confidence with a 100% pass guarantee For 70 years it has been our greatest privilege to prepare busy practitioners like you for professional certification and career success Congratulations on qualifying to sit for the exam Now let s get you ready to pass Board Certified Behavior Analyst is a registered trademark of the Behavior Analyst Certification Board The Behavior Analyst Certification Board does not sponsor or endorse this resource nor does it have a proprietary relationship with Springer Publishing

**Behavioral Case Formulation and Intervention** Peter Sturmey, 2008-09-15 There is a long history of behavioral approaches to psychopathology Recent work however has focused instead on cognitive psychodynamic and integrative approaches Behavioral Case Formulation and Intervention redresses this imbalance by exploring radical behaviorism and its approach to the conceptualization case formulation and treatment of psychopathology Peter Sturmey describes the conceptual foundations of functional approaches to case formulation and intervention explains the technology and application of behavioral assessment and hypothesis driven intervention and identifies outstanding and conceptual and practical problems within this framework

**Communication in Autism** Joanne Arciuli, Jon Brock, 2014-10-15 Communication in Autism adopts a multidisciplinary approach to explore one of the most common developmental disorders associated with communication impairment Perhaps the most fascinating thing about communication in autism is that variation is as extreme as it could possibly be While some individuals with autism have age appropriate language a number have exceptional language skills others have little or no spoken language In between these extremes are individuals who experience significant linguistic impairments These impairments can affect peer relations and literacy skills The chapters in this volume provide comprehensive coverage of both the theoretical underpinnings and the practical aspects of autistic communication The result is a volume that showcases the wide range of methodologies being used in this field of research It is invaluable for scientists service providers parents individuals with autism and students learning about communication and autism e g in psychology speech pathology and education

**Empirical Studies in Machine Psychology** Robert Johansson, 2024-10-09 This thesis presents Machine Psychology as an interdisciplinary

paradigm that integrates learning psychology principles with an adaptive computer system for the development of Artificial General Intelligence AGI By synthesizing behavioral psychology with a formal intelligence model the Non Axiomatic Reasoning System NARS this work explores the potential of operant conditioning paradigms to advance AGI research The thesis begins by introducing the conceptual foundations of Machine Psychology detailing its alignment with the theoretical constructs of learning psychology and the formalism of NARS It then progresses through a series of empirical studies designed to systematically investigate the emergence of increasingly complex cognitive behaviors as NARS interacts with its environment Initially operant conditioning is established as a foundational principle for developing adaptive behavior with NARS Subsequent chapters explore increasingly sophisticated cognitive capabilities all studied with NARS using experimental paradigms from operant learning psychology Generalized identity matching Functional equivalence and Arbitrarily Applicable Relational Responding Throughout this research Machine Psychology is demonstrated to be a promising framework for guiding AGI research allowing both the manipulation of environmental contingencies and the system s intrinsic logical processes The thesis contributes to AGI research by showing how using operant psychological paradigms with NARS can enable cognitive abilities similar to human cognition These findings set the stage for AGI systems that learn and adapt more like humans potentially advancing the creation of more general and flexible AI

Denna avhandling introducerar Maskinpsykologi som ett tv rvetenskapligt omr de d r principer fr n inl rningspsykologi integreras med ett adaptivt datorsystem Genom att kombinera forskning fr n beteendepsykologi med en formell modell f r intelligens Non Axiomatic Reasoning System NARS unders ker avhandlingen hur operant betingning kan anv ndas f r att driva utvecklingen av Artificiell General Intelligens AGI fram t Avhandlingen b rjar med att f rklara grunderna i Maskinpsykologi och hur dessa relaterar till b de inl rningspsykologi och NARS D refter presenteras en serie experiment som systematiskt unders ker hur allt mer komplexa kognitiva beteenden kan uppst n r NARS interagerar med sin omgivning Till att b rja med etableras operant betingning som en central metod f r att utveckla adaptiva beteenden med NARS I de f ljande kapitlen utforskas hur NARS genom experiment inspirerade av operant inl rningspsykologi kan utveckla mer avancerade kognitiva f rm gor som till exempel generaliserad identitetsmatchning funktionell ekvivalens och s kallade arbitr rt applicerbara relationsresponser Denna forskning visar att Maskinpsykologi r ett lovande verktyg f r att v gleda AGI forskning eftersom det m jligg r att b de p verka omgivningsfaktorer och styra systemets interna logiska processer Avhandlingen bidrar till AGI forskning genom att visa hur operanta psykologiska metoder till mpade p NARS kan m jligg ra kognitiva f rm gor som liknar m nskligt t nkande Dessa insikter ppnar nya m jligheter f r att utveckla AI system som kan l ra sig och anpassa sig p ett mer m nskligt s tt vilket kan leda till skapandet av mer generell och flexibel AI

**Consumer Behaviour Analysis: The behavioural basis of consumer choice** Gordon R. Foxall, 2002      *Behavior Therapy* William O'Donohue, Akihiko Masuda, 2022-10-17 This book provides a comprehensive overview of first second and third wave behavior therapies comparing and contrasting their

relative strengths and weaknesses Recent discussion and research has focused intently on third wave behavior therapies in particular Dialectical Behavior Therapy and Acceptance and Commitment Therapy ACT This is in contrast with first wave behavior therapies what today might be called applied behavior analysis or clinical behavior therapy and second wave behavior therapies brought about by the cognitive revolution The editors aim to provide a fuller understanding of this psychotherapeutic paradigm tracking how behavior therapies have evolved through history and various paradigm shifts in the field To this end the book is organized into five sections covering Introduction to the three waves of behavior therapy Assessment and measurement strategies Comparative issues and controversies Applications of the three waves of behavior therapy to 7 major disorders anxiety depression obesity psychosis substance abuse ADHD and chronic pain Implications of and future directions for behavior therapies This volume provides a useful perspective on the evolution of cognitive behavior therapy that will inform the study and practice of a variety of mental health professionals *Environment And Behavior*

Donald M. Baer, 2019-03-13 We propose this book as a celebration of the outstanding research and teaching career of Professor Barbara Coleman Etzel The editors and authors are her students and her worldwide colleagues She directed us toward the issues of antecedent control at a time when we thought altering consequences could solve all problems She developed a model of how a preschool teaching and research laboratory should be run by creating the very environmental controls evident in her work This book is testimony to her influence on our professional careers and to our affection for her Analysis of the way the environment influences behavior is essential to our understanding of human development This volume collects original never published work that describes how people conceptualize think and behave *Environment and Behavior* presents empirical studies that test theoretical assumptions and illustrate how to integrate environmental awareness into professional practice and design The ability to categorize to think in larger and more inclusive classifications and at the same time in smaller and more exclusive subdivisions is a hallmark of conceptual development It is the kind of development that makes humans distinctly rational symbolic and logical This book presents a new way of viewing the conceptual development of normal and developmentally disabled children and the conceptual reorganization of adults Individual conceptual ability is demonstrated across an impressive range of issues private events language development and function child abuse sexual abuse drug abuse autism aging professional practice and environmental and cultural design Additional commentary for each section is provided by the editors Those working or studying in the areas of psychology education human development social work and disability will find this book to be a current and thorough introduction to the subject

**The Comparative Psychology of Intelligence: Macphail Revisited** Michael Colombo, Damian Scarf, Thomas Zentall, 2021-03-15

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