



Control Theory In Biology And Experimental Psychology

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Control Theory In Biology And Experimental Psychology:

Control Theory in Biology and Experimental Psychology Frederick M. Toates, 1975 *Control Theory for Humans* Richard J. Jagacinski, John M. Flach, 2018-10-08 This textbook provides a tutorial introduction to behavioral applications of control theory. Control theory describes the information one should be sensitive to and the pattern of influence that one should exert on a dynamic system in order to achieve a goal. As such, it is applicable to various forms of dynamic behavior. The book primarily deals with manual control, e.g., moving the cursor on a computer screen, lifting an object, hitting a ball, driving a car, both as a substantive area of study and as a useful perspective for approaching control theory. It is the experience of the authors that by imagining themselves as part of a manual control system, students are better able to learn numerous concepts in this field. Topics include varieties of control theory such as classical, optimal, fuzzy, adaptive, and learning control, as well as perception and decision making in dynamic contexts. The authors also discuss implications of control theory for how experiments can be conducted in the behavioral sciences. In each of these areas, they have provided brief essays intended to convey key concepts that enable the reader to more easily pursue additional readings. Behavioral scientists teaching control courses will be very interested in this book. [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.), 1971 **Current Catalog** National Library of Medicine (U.S.), First multi-year cumulation covers six years 1965-70 [Mathematical Methods and Models in the Biological Sciences: Linear and one-dimensional theory](#) Martin M. Eisen, 1988 *The Interdisciplinary Handbook of Perceptual Control Theory* Warren Mansell, 2020-05-16 *Interdisciplinary Handbook of Perceptual Control Theory Volume II: Living in the Loop* brings together the latest research theory and applications from W. T. Powers. Perceptual Control Theory (PCT) proposes that the behavior of a living organism lies in the control of perceived aspects of both itself and its environment. Sections cover theory, the application of PCT to a broad range of disciplines, why perceptual control is fundamental to understanding human nature, a new way to do research on brain processes and behavior, how the role of natural selection in behavior can be demystified, how engineers can emulate human purposeful behavior in robots, and much more. Each chapter includes an author biography to set the context of their work within the development of PCT. Presents case studies that show how PCT can be applied in different disciplines. Illustrates the Test for the Controlled Variable (TCV) and the construction of functional models as fruitful alternatives to mainstream experimental design when studying behavior. Shows how theory illuminates structure and functions in brain anatomy. Compares and contrasts PCT with other contemporary interdisciplinary theories. [Analysis of Motivational Processes](#) Frederick M. Toates, Tim Halliday, 1980 **Scientific and Technical Books and Serials in Print**, 1984 **Systems Ecology** Howard T. Odum, 1983-03-08 An integrated theoretical and applied introduction to systems ecology that uses energy diagrammatic language to explain basic concepts of systems modelling and simulation. Teaches energetics while at the same time dealing with the issues of organization, entropy, information, complexity, diversity, frequency, and power, and the ways these determine the nature of real

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