

6. Reinforcement Schedules and Choice Behaviour

Friday, February 24, 2023

8:30 AM

Chapter Preview

Introduction

- Instrumental responses are not usually reinforced every time they occur
- Will be looking at the effects of intermittent **schedules of reinforcement**
- Reinforcement schedules
 - Determine rate, pattern, and persistence of instrumental behaviour
 - Similar behaviour patterns occur for schedules with similar response-reinforcer relationships
 - Exact rates might differ depending on context
 - Patterns are highly predictable
 - Influence how instrumental responses are learned and maintained through reinforcement
 - Highly relevant to behaviour motivation
 - ✓ **Someone working hard or being lazy is less dependent on personality than the reinforcement schedule**
- Lab studies on reinforcement schedules usually done w/ a Skinner box
 - Provide clearly defined responses that can occur repeatedly
 - Supports detection of any changes in rate of responding

☐ **Schedule of Reinforcement:** a program or rule that determines how and when a response will be followed by delivery of the reinforcer

Simple Schedules of Intermittent Reinforcement

Simple Schedules

- A single factor determines which instrumental response gets reinforced
- This factor can be the number of responses made (ratio schedules) or the time that's passed since response made (interval schedules)

Ratio Schedules

- Reinforcement only depends on the number of responses made
- **Continuous reinforcement** schedule
 - Enforces a 1:1 ratio b/w the response and reinforcement
- **Partial or Intermittent reinforcement**
 - Reinforcement doesn't happen every time req'd # of responses made
 - Response rate doesn't affect rate of reinforcement
- **Fixed-Ratio Schedules (FR)**
 - Set up so that reinforcement happens only when a certain number of responses are given
 - ✓ **FR10 → Must make 10 responses to earn 1 reinforcer**
 - Continuous reinforcement schedules are technically a type of FR
 - Fixed 1:1 ratio b/w responding & reinforcement
 - Good for quick learning
 - Doesn't maintain high rates of behaviour
 - ◻ Quickly have more reinforcers than req'd
 - ◻ Motivation becomes a problem
 - Extinction occurs rapidly
 - On a CRF schedule...
 - ◻ Steady, moderate response rate
 - ◻ Pauses are brief and unpredictable
 - Different response patterns happen w/ FR schedules that require a higher # of responses
 - Responses steady at a high rate, followed by a **post-reinforcement pause**:
 - Pauses are longer when ratio requirements are higher
 - Length of the pause correlated to the upcoming ratio requirement

☐ **Ratio Schedules:** a schedule where reinforcement depends on the number of responses the subject performs. Timing of responses doesn't matter

☐ **Continuous Reinforcement (CRF):** a schedule of reinforcement in which every occurrence of the instrumental response produces the reinforcer

☐ **Intermittent Reinforcement:** a reinforcement schedule where only some of the responses are reinforced

☐ **Fixed-Ratio Schedules (FR):** a reinforcement schedule where a fixed number of responses must occur in order for the next response to be reinforced

✓ When training on FR schedules, start with a low value (e.g. FR1) then gradually increase towards higher ratio requirements

☐ **Post-Reinforcement Pause:** a pause in responding that typically occurs after the delivery of the reinforcer on FR and FI schedules (response rate = 0)

Chapter Reinforcement

Yi-Tong Ma



Chapter Reinforcement:

Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05) ACI Committee 318,2005 **Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary** ACI Committee 318,American Concrete Institute,2008 The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications Welding of reinforcement is covered by reference to the appropriate AWS standard Uses of the Code include adoption by reference in general building codes and earlier editions have been widely used in this manner The Code is written in a format that allows such reference without change to its language Therefore background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included The Commentary is provided for this purpose Some of the considerations of the committee in developing the Code portion are discussed within the Commentary with emphasis given to the explanation of new or revised provisions Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail Other documents that provide suggestions for carrying out the requirements of the Code are also cited

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Structural plain concrete Introduction to Reinforced Concrete Design Hale Sutherland, Walter Woodbridge Clifford, 1926
Reinforced Concrete Construction ... George A. Hool, 1927 Proceedings American Concrete Institute, 1917
Proceedings of the ... Annual Convention of the American Railway Engineering and Maintenance-of-Way Association American Railway Engineering Association, 1917 List of members in v 1 Proceedings of the Annual Meeting - American Society for Testing Materials American Society for Testing Materials, 1924 **Journal of American Concrete Institute** American Concrete Institute, 1917 Each number includes Synopsis of recent articles **Proceedings - American Society for Testing and Materials** American Society for Testing and Materials, 1917 Vols 61 66 include technical papers
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