## Contents

**Acknowledgments**  
page ix

Introduction: Cybernetic Thinking and Modernist Literature  
1  
Proliferating Textuality: Modernism’s Multivalent Data-Networks  
1  
Rethinking Cybernetics’ Historical Scope and Disciplinary Reach  
5  
Modernist Literature and the “Cybernetic Fold”  
9  
Techno-Modernism: Critical Trends, New Cybernetic Directions  
13  
The Modernist Aesthetics of Norbert Wiener’s Cybernetics  
17  
*Cybernetic Aesthetics*: Orientation and Overview  
21  

1 Feedback Loops and Learning from the Past:  
Ezra Pound’s Poetics of Transmission  
25  
Pound’s Poetics of Transformation  
25  
*Canons* Criticism: Evolving Scholarly Trends, New Analytical Contexts  
27  
The Feedback Loop: Idealized Poundian Transmission  
30  
Circulation and Dialogue versus Blockage and Obfuscation  
35  
Becoming Cybernetic Machines, Reading the *Chinese History Canons*  
39  
Defying Data: Pound’s Aesthetic Cybernetics  
45  

2 The Cybernetic Information Dialectic: Patterns, Randomness,  
and Newsreel in John Dos Passos’s *U.S.A.*  
49  
“Outa Luck” in America  
49  
Not-Quite-Naturalism: A Starting Point for Dos-Passos-ian Cybernetics  
51  
Cybernetics’ Competing Theories of Information, Newsreel’s  
Random Patterns  
54  
Dos Passos’s Literary “Newsreels”: A Cybernetic Cross-Media Analogy  
61  
Beyond the Newsreels: Random Patterns across Dos Passos’s Camera-Eye  
and Characters  
67  
Conclusions: History, Fiction, and the Cybernetic Interpretive Impulse  
70  

3 Black Box Subjectivity: Associative Language, Affect,  
and Radio Blindness in Virginia Woolf’s *The Waves*  
73  
Black-Boxes: An Anecdotal Opening  
73  
Complex Black Boxes: Tomkins, Affect, and Contingency  
76
## Contents

Catching Modern Character: Woolf's Black-Box Literary Subjects 81  
Black-Box Radio Aesthetics: Woolf, Blindness, and the BBC 89  
Words as Black Boxes: Woolf's Wavy Associations 98  
Virginia Woolf and Modernist Media Ecology 102  

4 Cultural Composition, Insistent Spirals, and Definition by Contrast: Gertrude Stein as Second-Order Cybernetic Anthropologist 106  
- Aerial Perspectives and Altered Perceptions 106  
- Modernism, Anthropology, Second-Order Cybernetics 110  
- Pursuing the “Patterns of Life”: Culture as “Composition” 114  
- Composing America, Defamiliarizing the Quotidian 119  
- Repetition, Comparison, Contrast: Second-Order Cybernetic Pedagogy 123  
  - Reframing Repetition: Emphasis, Insistence, Spirals, Möbius Strips 124  
  - Setting Experiences Side-by-Side: Definition by Contrast 130  
  - Analogy, Large-Scale Data Sets, and Induction: Repetition across Contexts 133  
- Second-Order Cybernetics: Urgent Pedagogy for the Modern World 136  

Coda: Retrospective and Prospective Readings of Cybernetic Aesthetics 141  
- Looking Backward: Pre-Twentieth-Century Cybernetic Thinking 141  
- Looking Forward: Modernist Cybernetics in the Twenty-First Century 146  

Notes 151  
References 188  
Index 206