

# CONTENTS

## Part I—THE NATURE OF OPERATIONAL RESEARCH

Connective Summary . . . . .	1
1 An Initial Posture . . . . .	3
2 On Fixing Belief . . . . .	17
3 Some Dangerous Precedents . . . . .	33
4 The Wedged Bear . . . . .	47
5 The New Look . . . . .	69

## Part II—THE ACTIVITY OF OPERATIONAL RESEARCH

Connective Summary . . . . .	93
6 About Models . . . . .	95
7 Models in Aspic . . . . .	120
8 The Formal Languages . . . . .	142
9 A Walk in the Ramified System . . . . .	172
10 Apollo's Gift . . . . .	204

## Part III—THE RELEVANCE OF CYBERNETICS

Connective Summary . . . . .	239
11 About Systems . . . . .	241
12 Coping with Complexity . . . . .	270

<b>13</b>	Controlling Operations . . . . .	299
<b>14</b>	Self-Organizing Systems . . . . .	345
<b>15</b>	Controlling Enterprises . . . . .	370

#### **Part IV—OUTCOMES**

	Connective Summary . . . . .	399
<b>16</b>	The Outcome for Industry . . . . .	401
<b>17</b>	Information and Automation . . . . .	432
<b>18</b>	The Outcome for Government . . . . .	461
<b>19</b>	The Outcome for Management Science . . . . .	496
<b>20</b>	On Practicability . . . . .	525
	Index . . . . .	551