

Contents

<i>List of Figures</i>	<i>vii</i>
<i>List of Tables</i>	<i>xi</i>
<i>Preface</i>	<i>xv</i>
<i>Acknowledgements</i>	<i>xix</i>
<i>Senior Author Biographies</i>	<i>xxi</i>
<i>Contributing Authors</i>	<i>xxiii</i>
Chapter 1 Overview	1
Chapter 2 Modelling Command and Control	1
Chapter 3 Event Analysis of Systemic Teamwork	2
Chapter 4 Case Study at HMS Dryad	3
Chapter 5 Case Study in RAF Boeing E3D Sentry	4
Chapter 6 Case Study in Battle-Group HQ	4
Chapter 7 Development of a Generic Process Model of Command and Control	5
Chapter 2 Modelling Command and Control	7
Purpose and Scope	7
Models	7
Specification	10
Structural Models of Command and Control	13
Network Models	19
Dynamic Models	25
Agent Models	32
Socio-technical Models	36
Example: Contextual Control Model	43
Summary of Socio-technical Models	45
Summary of Modelling Review	45
Chapter 3 Event Analysis of Systemic Team-work	49
EAST Review	49
Methods Review	51
Summary	117
Chapter 4 Case Study at HMS Dryad	119
Introduction	121
Observations	124
Conclusions	154

Chapter 5	Case Study in RAF Boeing E3D Sentry	157
	Introduction	157
	Observations	159
	Propositional Networks	172
	Conclusions	177
Chapter 6	Case Study in Battle Group HQ	181
	Introduction	181
	Findings	192
	Conclusions	219
Chapter 7	Development of a Generic Process Model of Command and Control	221
	Three Domains for Command and Control	221
	Common Features of the Domains and Application of Command and Control	225
	Taxonomies of Command and Control Activities	225
	Construction of the Model	231
	Network Enabled Capability	233
	Model Validity	234
	Summary	235
	Conclusions	235
	<i>Bibliography</i>	239
	<i>Index</i>	245