

# Contents

<b>1 Introduction</b> . . . . .	1
Span (Geographical Extent) . . . . .	1
Level of Resolution . . . . .	2
Time Span (Duration) . . . . .	3
Defining Unconventional Conflict . . . . .	3
Modeling Preliminaries . . . . .	6
<b>2 Descriptions of Unconventional Conflict</b> . . . . .	13
Types of Operations . . . . .	14
Analyses of Unconventional Conflict . . . . .	27
<b>3 Modeling Research</b> . . . . .	39
Modeling Constructs . . . . .	40
Technical Modeling Approaches . . . . .	50
Models . . . . .	61
Modeling Requirements . . . . .	92
<b>4 The DIME/PMESII Paradigm</b> . . . . .	99
PMES Concept . . . . .	99
PMESII Concept . . . . .	99
DIME Concept . . . . .	103
Unified DIME/PMESII+ Paradigm . . . . .	103
Beyond PMESII . . . . .	106
<b>5 Ontologies</b> . . . . .	107
Ontology Definition . . . . .	107
Sources for the IW Ontology . . . . .	111
Situation-Independent Ontology . . . . .	119
Situation-Dependent Ontology . . . . .	133
A Total Ontology . . . . .	143

<b>6</b>	<b>Verification, Validation, and Accreditation</b> . . . . .	147
	V&V of Combat Models . . . . .	147
	VV&A of Model Data . . . . .	148
	Developing V&V of Unconventional Conflict Models . . . . .	149
	Review of VV&A of Unconventional Conflict Models . . . . .	169
<b>7</b>	<b>Modeling Unconventional Conflict</b> . . . . .	171
	Designing the Model . . . . .	171
	Culling the Simulation . . . . .	181
	Gathering the Data . . . . .	182
	VV&A of the Model . . . . .	194
<b>8</b>	<b>Conclusion</b> . . . . .	195
	Review . . . . .	195
	Recap of the Major Points . . . . .	196
	<b>References</b> . . . . .	201
	<b>Index</b> . . . . .	211



<http://www.springer.com/978-3-319-51934-0>

Unconventional Conflict

A Modeling Perspective

Hartley, D.

2017, XVII, 218 p. 116 illus. in color., Hardcover

ISBN: 978-3-319-51934-0