TABLE OF CONTENTS

INTRODUCTION	v
GAME THEORY: THE LANGUAGE OF STRATEGY? M. Shubik	1
 The Social Process and Science of War 1 The Languages of Game Theory 3 The Solution Concepts of Game Theory 11 Modeling, the Strategic Audit, and Analysis 17 References 26 	
A CRITICAL ASSESSMENT OF QUANTITATIVE METHODOLOGY AS A POLICY ANALYSIS TOOL Ralph E. Strauch	29
I. Introduction 29 II. Policy Analysis and Quantitative Methodology 30 References 54	
DUELS: AN OVERVIEW George Kimeldorf	55
 Introduction and Summary 55 Background and Present Status of Knowledge 56 Open Problems 66 References 69 	
REQUIREMENTS FOR THE THEORY OF COMBAT H.K. Weiss	73
Introduction 73 Division of Characteristics 74 Lanchester Models 78 Freshness 80 Model of Infantry Attack on Well Defended Position 82 Deficiencies in Model of Attack 84 A Theory of Morale 85 Conclusion 88 References 88	

LANCHESTER ATTRITION PROCESSES AND THEATER-LEVEL COMBAT MODELS Alan F. Karr	89
0. Introduction 89 1. Classical Lanchester Theory 90 2. Continuous Time Markov Attrition Processes 98 3. Simplified Stochastic Attrition Models 108 4. Attrition Computations in Theater-Level Combat Models 115 References 123	
DIFFERENTIAL GAMES: CONCEPTS AND APPLICATIONS Y.C. Ho and G.J. Olsder	127
I. Introduction 127 II. Zero-Sum Differential Games 127 III. Pursuit-Evasion with Perfect State Measurement 135 IV. Applications 151 V. Extensions to Nonzero-Sum and Stochastic Games 159 Conclusion 163 References 164	