

Contents

| | |
|--|-----|
| Introduction | 7 |
| Chapter 1 | |
| THE OPERATIONAL WARFARE ART ORIGIN | 11 |
| 1.1. The Role of Operational Arts as the Art of Warfare Discipline..... | 11 |
| 1.2. The Operational Art Beginnings | 13 |
| 1.3. The Beginning of the Operation..... | 17 |
| 1.4. Reasons for the Operation Emergence - Numerous and Mass Armies..... | 23 |
| Summary | 37 |
| Bibliography | 39 |
| Chapter 2 | |
| CONTEMPORARY OPERATIONAL ART | 40 |
| 2.1. Analytical Approach to Operational Art..... | 40 |
| 2.2. The origin of the American modern operational art in doctrines..... | 47 |
| 2.3. Contemporary Operation Art..... | 56 |
| 2.4. Methodical Aspects of Operational Art | 61 |
| Summary | 64 |
| Bibliography | 65 |
| Chapter 3 | |
| DIFFERENCE OF APPROACH TO OPERATIONAL ART..... | 67 |
| 3.1. Design Thinking Approach in the United States Armed Forces..... | 70 |
| 3.2. The NATO Design Approach..... | 83 |
| 3.2.1. Three approaches to Operational Art and Methodology..... | 86 |
| Summary | 95 |
| Bibliography | 97 |
| Chapter 4 | |
| DESIGN THINKING METHODOLOGY, INTRODUCTION | |
| TO THE PLANNING PROCESS..... | 101 |
| 4.1. Design Thinking Application..... | 104 |
| 4.2. Difficulties in Applying the Design Thinking in the Military | 105 |
| 4.3. Unspecified Methodology | 107 |

| | |
|--|-----|
| 4.4. A Different Conceptual Apparatus..... | 108 |
| 4.5. Requirements Regarding User | 108 |
| 4.5.1. Knowledge of Techniques and Methods | 109 |
| 4.5.2. Characteristics of the Team's Work..... | 109 |
| 4.6. Problematic Assessment of Effects | 110 |
| 4.7. Fundamental Errors when Using DT | 113 |
| 4.8. Workshop Preparation and Creative Discipline Maintenance | 113 |
| 4.9. Preparation of a Moderator and Experts' Assistance..... | 118 |
| 4.10. Superiority of the Goal over the Process..... | 119 |
| 4.11. Problematic Assessment..... | 120 |
| 4.12. Adapting Design Thinking to the Operational Planning Needs, Methodological Suggestions - Summary | 121 |
| Bibliography | 127 |
| Chapter 5 | |
| ASPECTS OF DESIGN THINKING METHODOLOGY IMPLEMENTATION | 129 |
| 5.1. Practical Aspects of Innovative Military Operation Design Methods Implementation at the Design Thinking Training Stage | 132 |
| 5.2. Practical Aspects of Innovative Methods Implementation for Designing Military Operations at the Stage of Selected Products Delivery as Part of Design Thinking..... | 148 |
| Summary | 163 |
| Bibliography | 165 |
| Chapter 6 | |
| APPRECIATING DESIGN METHODOLOGIES FOR SECURITY AND STRATEGIC APPLICATIONS | 166 |
| 6.1. First in Military Design Methods: The Israeli Défense Forces (IDF) | 169 |
| 6.2. American Developments in Military Design Theory | 172 |
| 6.3. Australian Developments in Non-Traditional Design | 176 |
| 6.4. Canadian Developments in the Design Movement for Security Applications..... | 179 |
| Conclusions..... | 182 |
| Bibliography | 184 |
| Conclusion | 186 |
| List of figures | 189 |
| Photograph list..... | 191 |
| List of tables | 193 |