

## CONTENTS

	Page
<i>Hryhoriy Krynytskyi, Petro Lakyda, Petro Hnativ. PREFACE</i> .....	9
INTRODUCTION .....	14
1. THEORETICAL BASICS OF THE CARPATHIANS FOREST TYPOLOGY .....	16
1.1. The doctrine conceptual foundations of the forest development in space and time .....	16
1.2. Modern vision of dynamic processes in forest typology .....	18
1.4. The historical aspect of the modern forests formation in the Carpathian region .....	23
1.5. Anthropogenic changes in the forests of the Carpathian region .....	24
1.6. The studying problems of forests heterogeneity and their formation in the Carpathian region .....	27
SUMMARY .....	31
REFERENCES .....	33
2. RESEARCH OBJECTS, PROGRAM AND METHODOLOGY .....	42
2.1. Natural conditions and forest vegetation of the research region .....	42
2.2. Objects and methodological research principles .....	52
2.3. Research program and methodology .....	56
SUMMARY .....	64
REFERENCES .....	66
3. THE FOREST VEGETATION FORMATION HISTORY AND ITS ECONOMIC DEVELOPMENT .....	70
SUMMARY .....	87
REFERENCES .....	88
4. STRUCTURAL AND DYNAMIC CHARACTERISTICS OF THE CARPATHIAN FOOTHILLS FORESTS .....	90
4.1. The modern forest cover structure features .....	90
4.1.1. The forest stands edaphotopic growth conditions, their age structure, composition and productivity .....	90
4.1.2. The forest stands structural features of different age stages .....	105
4.1.3. The young generation tree species structure in the dominant forest stands types .....	113
4.2. The edificatory species trees growth peculiarities of mixed forest stands .....	116
4.3. The mixed stands development trends .....	121
4.4. The forest phytocenoses formation general trends .....	124
SUMMARY .....	132
REFERENCES .....	135
5. THE LOW-MOUNTAINS FORESTS HETEROGENEITY AND ITS FORMATION .....	136
5.1. The modern forest cover structure features .....	136
5.1.1. The forest stands edaphotopic growth conditions, their age structure, composition and productivity .....	136
5.1.2. The forest stands structural features of different age stages .....	149
5.1.3. The young generation tree species structure of the dominant forest stands types .....	159
5.2. The edificatory species trees growth peculiarities of mixed forest stands .....	162
5.3. The mixed stands development trends .....	167
5.4. The forest phytocenoses formation general trends .....	169
SUMMARY .....	178
REFERENCES .....	181

6. THE STRUCTURE AND DEVELOPMENT FEATURES OF THE GORGANY MID-MOUNTAINS FORESTS .....	182
6.1. The modern forest cover structure features .....	182
6.1.1. The forest stands edaphotopic growth conditions, their age structure, composition and productivity .....	182
6.1.2. The forest stands structural features of different age stages .....	195
6.1.3. The young generation tree species structure of the dominant forest stands types .....	205
6.2. The edificatory species trees growth peculiarities of mixed forest stands .....	207
6.3. The mixed stands development trends .....	226
6.4. The forest phytocenoses formation general trends .....	230
SUMMARY .....	237
REFERENCES .....	239
7. THE GENERALIZED CLASSIFICATION MODELS OF THE NATURAL FORESTS HETEROGENEITY AND THEIR POTENTIAL DEVELOPMENT IN THE CARPATHIAN PART OF THE DNIESTER RIVER BASIN .....	240
7.1. The genetic dynamic forest development modeling principles .....	241
7.2. The forest growth soil-water-geochemical conditions types models .....	242
7.3. The heterogeneity models of potential forest cover .....	248
7.4. The forest phytocenoses development models .....	252
7.5. The forest stands target biometric structure .....	260
7.6. The forest stands formation in forest types groups and complexes .....	272
SUMMARY .....	284
REFERENCES .....	287
CONCLUSION .....	289