

# Table of contents

List of tables and figures . . . . .	7
List of abbreviations . . . . .	11
Preface . . . . .	13
<b>1  Language of science . . . . .</b>	<b>17</b>
1   1 Science, terminologies and hierarchical lexical sets . . . . .	17
1   2 The aims, methods and research questions of this study . . . . .	20
1   3 Occupational varieties and the style of science . . . . .	22
1   4 Terms and their formation . . . . .	26
1   5 Semantic and syntactic condensation . . . . .	31
<b>2  Lexical units and relations between them. . . . .</b>	<b>33</b>
2   1 Semantic fields and lexemes . . . . .	33
2   2 Sense relations seen through predicate calculus . . . . .	35
2   3 Synonymy . . . . .	38
2   4 Polysemy and synonymy of terms . . . . .	40
2   5 Oppositeness and antonymy . . . . .	42
2   6 Hyponymy . . . . .	44
2   6   1 Inclusion and entailment . . . . .	44
2   6   2 Compatibility, incompatibility, paraphrases and imperfect relations . . . . .	46
2   6   3 Relation between antonymy and hyponymy . . . . .	47
2   6   4 Markedness – general and specific words . . . . .	47
<b>3  Lexical hierarchies . . . . .</b>	<b>53</b>
3   1 Classificatory hierarchies: introduction . . . . .	53
3   2 Taxonomy . . . . .	60
3   2   1 Properties of taxonomy . . . . .	60
3   2   2 Natural and nominal kind hyponyms . . . . .	61
3   2   3 Taxonomic overspecification and underspecification . . . . .	66
3   3 Meronymy . . . . .	67
3   3   1 Meronyms and holonyms . . . . .	67
3   3   2 Transitivity vs. intransitivity of meronymy . . . . .	69
3   4 Relation between taxonomy and meronymy . . . . .	70
3   5 Relations similar to the part-whole relation . . . . .	72
3   6 Proportional series . . . . .	75
3   6   1 Open vs. closed, consistent vs. inconsistent series . . . . .	75
3   6   2 Endonyms, exonyms, analogues and lexical siblings . . . . .	77
3   6   3 Paronymy . . . . .	81

3   7	Non-branching lexical hierarchies . . . . .	82
3   7   1	Derivation of non-branching hierarchies . . . . .	82
3   7   2	Non-lexicalised branching and non-branching hierarchies . . . . .	84
3   7   3	Scalar non-branching hierarchies . . . . .	86
3   7   4	Chains vs. cycles/helices . . . . .	87
<b>4  </b>	<b>Biological taxonomy . . . . .</b>	<b>91</b>
4   1	The principles of binomial nomenclature and biological taxonomy . . . . .	91
4   2	Representation of evolution in tree diagrams . . . . .	96
4   3	Botanical taxonomic system and its taxonyms . . . . .	101
4   4	Zoological taxonomic system and its taxonyms . . . . .	115
4   5	Taxonomic inconsistencies: synonymy and polysemy . . . . .	121
4   5   1	Terminological synonymy . . . . .	121
4   5   2	Terminological polysemy . . . . .	126
<b>5  </b>	<b>Lexical hierarchies in the nomenclature of economics . . . . .</b>	<b>129</b>
5   1	Lexical sources of the language of economics . . . . .	129
5   2	Lexico-semantic properties of the financial and accounting terminology . . . . .	130
5   3	Taxonomic inconsistencies in the language of economics: polysemy and synonymy . . . . .	135
5   4	Lexical hierarchies in economics, finance and accounting . . . . .	137
<b>6  </b>	<b>Lexical hierarchies in natural vs. social sciences . . . . .</b>	<b>161</b>
6   1	Natural vs. artificial classifications . . . . .	161
6   1   1	Properties of taxons at higher levels . . . . .	161
6   1   2	Polysemy of vernacular generic names . . . . .	164
6   1   3	Other social hierarchies: military ranks . . . . .	165
6   2	Term-formation—its sources, means and processes . . . . .	169
6   3	Nomenclatures in the vertical perspective . . . . .	176
6   4	Principles of term-formation at the horizontal level . . . . .	181
6   4   1	Co-hyponyms in biological taxonomies . . . . .	181
6   4   2	Co-hyponyms in the lexical hierarchies of accounting and finance . . . . .	188
<b>7  </b>	<b>Properties of lexical hierarchies in biology and in economics: synthesis and conclusions . . . . .</b>	<b>197</b>
	<b>References . . . . .</b>	<b>201</b>
	<b>Summary . . . . .</b>	<b>205</b>
	<b>Zusammenfassung . . . . .</b>	<b>207</b>
	<b>Shrnutí . . . . .</b>	<b>211</b>
	<b>Name Index . . . . .</b>	<b>213</b>
	<b>Subject Index . . . . .</b>	<b>215</b>