

Contents

Chapter	Page
1 Historical introduction	I
2 General problems	11
Criteria	13
The course of an investigation	15
Some definitions and conventions	17
3 Some statistical problems	21
Linear and proportional scales	22
Frequency distributions	26
Number and size of samples	29
Consecutive and non-consecutive sampling	32
Diversity: a measure of richness of vocabulary	32
The zero term: unrepresented groups	33
Some definitions	33
4 Word-length and sentence-length	36
Distribution of word-length in different parts of speech	41
Available vocabulary and word-length	48
Nouns in John Bunyan's <i>Life and Death of Mr Badman</i>	52
The frequency distribution of lengths of sentences	52
Dialogue and descriptive writing	60
The effect of rhythm on sentence-length	61
5 Problems of vocabulary	64
Vocabulary, usage and parts of speech	68
Consecutive and non-consecutive sampling	72
Pattern of the frequency of usage of different words	76
Nouns in Bunyan's <i>Life and Death of Mr Badman</i>	83
Distribution of nouns in Macaulay's essay on Francis Bacon	84
Rate of increase of vocabulary with increase of sample size	90

CONTENTS

<i>Chapter</i>	<i>Page</i>
6 The measurement of diversity	96
Simpson's Index of Diversity	96
Yule's "Characteristic"	97
7 Verse, rhyme and rhythm	105
Line and punctuation rhythm in different types of Shakespearean plays	107
Yardi's Discriminant Function	113
Rhythm in Latin and English hexameter verse	116
Differences in the proportions of different rhythm sequences in different writers	117
Ranking order in frequency of selection of different rhythmic patterns	120
English hexameters—Longfellow's "Evangeline"	121
8 Miscellaneous problems and examples	125
Different approaches to <i>De Imitatione Christi</i>	125
Function words and <i>The Federalist Papers</i>	132
The use of <i>καί</i> in the Greek Epistles attributed to St Paul	133
Comparison of vocabulary and usage in normal and in Basic English	135
Comparison of different languages	136
Rare and abundant words	139
Relative frequency of nouns and adjectives	143
Frequency distribution of English nouns according to their initial letter	144
Greek texts of Gospels relative to size of papyrus sheets	145
9 Comments, summary, and conclusions	147
References	153
Index	159