

CONTENTS

CHAPTER 1 ELEMENTARY CONCEPTS IN STATISTICS.....	9
1.1. A Few Words on Measurement.....	14
1.2. Measurements Systems Properties	15
1.3. Scale Types – a Little Bit of Taxonomy.....	19
1.4. Difficulties of Scale Types	21
1.5. Further on Scale Types.....	24
CHAPTER 2 FREQUENCY DISTRIBUTIONS.....	25
2.1. Frequency Tables	29
2.2. Graphical Representation of Statistical Data	33
2.3. Frequency Distributions Comparison	41
2.4. Crosstabs or Contingency Tables.....	44
2.5. Grouped Frequency Distributions.....	47
CHAPTER 3 MODELS OF DISTRIBUTIONS	55
3.1. Probability Models.....	59
3.2. Properties of Probability Distributions	61
3.3. The Normal Curve	62
3.4. The Standard Normal Curve	71
CHAPTER 4 DESCRIPTIVE MEASURES	75
4.1. Measures of Central Location.....	89
4.2. Measures for Skewed Distributions	95
4.3. Measures of Variability	98

CHAPTER 5 REGRESSION MODELS.....	103
5.1. The Construction of a Regression Model.....	107
5.2. The Least-Squares Method for Goodness-Of-Fit.....	109
5.3. The Regression Model	112
5.4. The Regression Line and the Scatter Diagram.....	119
CHAPTER 6 STATISTICAL CORRELATION	127
6.1. The Coefficient of Correlation	131
6.2. Interpretation of the Correlation Coefficient.....	132
6.3. Calculation of the Correlation Coefficient.....	140
6.4. Correlation and Causation.....	143
CHAPTER 7 HYPOTHESIS TESTING	145
7.1. General Principles	151
7.2. The Model	152
7.3. Sampling Distributions	154
7.4. The Sampling Distribution of the Mean	158
7.5. Testing Hypothesis about Single Means	160
7.6. Errors in Hypothesis Testing.....	168
STATISTICAL TABLES	177
REFERENCES.....	185
STATISTICS ON WWW	191