

DETAILED CONTENTS

About the Authors	viii
Series Editor's Introduction	ix
Acknowledgments	x
1. Introduction	1
2. PDFs, CDFs, Quantile Functions, and Lorenz Curves	5
Ranks, PDFs, CDFs, and Moments	5
Quantile Functions	10
Lorenz Curves	13
Summary	16
Appendix: A Location Shift Changes the Lorenz Curve	17
3. Summary Inequality Measures	19
Summary Inequality Measures	19
<i>Relating Inequality Measures to Probability Distributions</i>	19
<i>Inequality Measures Based on Quantile Functions and Lorenz Curves</i>	25
<i>Inequality Measures Derived From Social Welfare Functions</i>	30
<i>Inequality Measures Developed From Information Theory</i>	34
Inequality Measures for Variables With Nonpositive Values	40
Summary	41
Appendix	42
4. Choices of Inequality Measures	44
Weak Principle of Transfers	44
Strong Principle of Transfers	46
Scale Invariance	47
Principle of Population	48
Decomposability	48
Choose Inequality Measures for One Population	57

Lorenz Dominance and Population Comparison	59
Summary	63
Appendix	64
5. Relative Distribution Methods	65
Relative Rank, Relative Distribution, Relative Density	65
Relative Proportions and Relative Density	70
Decomposition of Relative Density	73
Summary Measures of Relative Distribution	82
<i>Relative Entropy</i>	82
<i>Relative Polarization</i>	86
Trends of Relative Distributions	90
Summary	92
6. Inference Issues	93
The Asymptotic Approach With Survey Design Effect	94
The Bootstrap Approach	101
<i>Bootstrap Basics</i>	104
<i>Bootstrap Inferences for Relative Distribution Measures</i>	106
<i>Bootstrapping With Survey Sampling Designs</i>	107
<i>Performance of the Asymptotic and Bootstrap Approaches</i>	108
Summary	109
7. Analyzing Inequality Trends	111
Summary	120
8. An Illustrative Application: Inequality in Income and Wealth in the United States, 1991–2001	121
Descriptive Statistics	121
Observed Income and Wealth Inequality	126
Testing Trends of Income and Wealth Inequality	130
Decomposing Trends of Income and Wealth Inequality	136
Summary	140
Appendix	142
References	143
Index	147