

CONTENTS

PREFACE	VII
GLOSSARY OF NOTATION	XII
CHAPTER 1: ON QUASI-ORDERINGS OF INCOME PROFILES	1
1.1 Introduction	1
1.2 Social Evaluation (Welfare) Functions and their Arguments	3
1.3 Some Definitions	8
1.4 The Lorenz Quasi-Ordering	10
1.5 Some Alternative Quasi-Orderings	16
1.6 Concluding Remarks	24
CHAPTER 2: ETHICAL INDICES OF INEQUALITY	27
2.1 Introduction	27
2.2 Postulates for the Selection of an Index of Inequality	29
2.3 Cardinaly Significant Ethical Indices of Relative Inequality	39
2.4 Cardinaly Significant Ethical Indices of Absolute and Intermediate Inequality	54
2.5 Inequality as an Ordinal Concept	61
2.6 Decomposition of Inequality Indices by Population Subgroups and by Factor Components	68
2.7 Concluding Remarks	77
CHAPTER 3: THE GINI INDICES OF INEQUALITY	82
3.1 Introduction	82
3.2 A Formal Definition of the Lorenz Curve for a Continuum of Population	83
3.3 A General Definition of the Lorenz Curve	92
3.4 An Extension of the Gini Index of Relative Inequality	97
3.5 Alternative Generalisations of the Gini Index	102
3.6 Empirical Estimation of Inequality Indices from Grouped Data	109
3.7 Concluding Remarks	112

CHAPTER 4: ETHICAL INDICES OF DISTANCE BETWEEN INCOME PROFILES	114
4.1 Introduction	114
4.2 Ethically Coherent Distance Functions	115
4.3 A Characterisation Theorem	121
4.4 Concluding Remarks	129
CHAPTER 5: THE MEASUREMENT OF RELATIVE DEPRIVATION	131
5.1 Introduction	131
5.2 A Simple Index of Relative Deprivation and the Implied Welfare Ordering	132
5.3 Ethical Indices of Relative Deprivation	139
5.4 Concluding Remarks	144
CHAPTER 6: ETHICALLY FLEXIBLE INDICES OF POVERTY	146
6.1 Introduction	146
6.2 Properties for an Index of Poverty	149
6.3 Relative Indices of Poverty	159
6.4 Absolute Indices of Poverty	174
6.5 Concluding Remarks	177
CHAPTER 7: ADDITIVELY DECOMPOSABLE INDICES OF POVERTY	185
7.1 Introduction	185
7.2 Decomposability	186
7.3 Additively Decomposable Indices of Poverty	187
7.4 Empirical Estimation of Poverty Indices from Grouped Data	193
7.5 Concluding Remarks	205
CHAPTER 8: MEASUREMENT OF TAX PROGRESSIVITY AND HORIZONTAL INEQUITY	208
8.1 Introduction	208
8.2 Indices of Local Progression	209
8.3 An Ethical Index of Global Tax Progressivity	215
8.4 Ethical Indices for the Measurement of Horizontal Inequity	218
8.5 Alternative Indices of Tax Progressivity and Horizontal Inequity	224
8.6 Concluding Remarks	235

CHAPTER 9: ETHICAL INDICES OF INCOME MOBILITY	242
9.1 Introduction	242
9.2 Ethical Indices of Relative Mobility	244
9.3 Alternative Concepts of Mobility	262
9.4 Concluding Remarks	267
EXTENDED BIBLIOGRAPHY	270
SUBJECT INDEX	305