

Contents

1	Introduction	1
1.1	Economic Growth and the Environment	1
1.2	Efficiency, Equity, and Global Warming	3
1.2.1	Efficiency	3
1.2.2	Intra-generational Equity	4
1.2.3	Intergenerational Equity	6
1.3	Features and Organization of the Brief	8
	References	9
2	Environmental Kuznets Curve Hypothesis	11
2.1	Environmental Kuznets Curve Hypothesis	11
2.2	Literature Review (1): Empirical Research	15
2.3	Literature Review (2): Theoretical Research	20
2.4	The Model with Stock Pollutants	21
2.5	Problems with the Environmental Kuznets Curve	24
2.5.1	Conceptual and Theoretical Aspects	24
2.5.2	Empirical Aspects	26
	References	28
3	Empirical Analysis of the Environmental Kuznets Curve	31
3.1	Data Sources	31
3.2	Stationarity of Panel Data	34
3.2.1	Panel Unit Roots Tests	34
3.2.2	Panel Cointegration Tests	35
3.3	Estimation of the Environmental Kuznets Curve	37
3.3.1	Estimation Methods	37
3.3.2	Estimation (1): Static Panel Data Model	38
3.3.3	Estimation (2): Dynamic Panel Data (Arellano and Bond) Model	40
3.4	Some Comments on the Turning Point	43
	References	45

4 Concluding Remarks	47
4.1 Summary of the Study	47
4.2 Further Research	48
4.3 Toward the Stationary State of John Stuart Mill	49
References	50
Appendix A: Stokey Model with Accumulative Pollutant.	51
Appendix B: Nonstationary Panel Data	55
Appendix C: Model Specification Test	59
Further Reading	61

Environmental Kuznets Curve Hypothesis and Carbon
Dioxide Emissions

Uchiyama, K.

2016, VIII, 63 p. 6 illus., 1 illus. in color., Softcover

ISBN: 978-4-431-55919-1