Figures

1.1 The linear throughput representation of the economic process 12
1.2 The economic and ecological impact of a growing economy 17
4.1 The marginal effect of FDI on ENVPOL conditional upon CHECKS 84
4.2 The marginal effect of FDI on ENVPOL conditional upon POLCON 84
4.3 The marginal effect of FDI on ENVPOL conditional upon AGG.HONESTY_1 85
4.4 The marginal effect of FDI on ENVPOL conditional upon AGG.HONESTY_2 85
4D.1 Time-series variability of CHECKS, POLCON, and ENVPOL 99
6.1 Per capita GPI versus per capita GDP – Australia, 1962–2010 155
6.2 Index values of per capita GPI versus per capita GDP – Australia, 1962–2010 (1962 = 100) 156
6.3 Per capita GPI and its major component categories – Australia, 1962–2010 158
7.1 Per capita GPI of seven Asia-Pacific countries (converted to International dollars) 182
7.2 Per capita GPI versus per capita GDP of seven Asia-Pacific countries (converted to International dollars) 184
8.1 High level structure of LowGrow 204
8.2 Scenario 1 – Business-as-usual (2005 = 100) 207
8.3 Scenario 2 – A no-growth disaster (2005 = 100) 211
8.4 Scenario 3 – Low-growth then no-growth, high investment (2005 = 100) 213
8.5 Scenario 4 – Low-growth then no-growth, high net exports (2005 = 100) 214
8.6 Scenario 5 – Low-growth then no-growth, with high investment and a carbon tax (2005 = 100) 216
9.1 Environmental Kuznets Curve (EKC) 228
9.2 The $MC(Y)$ curve 232
9.3 Shift of the $MC(Y)$ curve due to increase in $Y$ from $Y_0$ to $Y_1$ (efficiency-increasing technological progress is fixed) 234
9.4 Shift of the $MC(Y)$ curve due to efficiency-increasing technological progress ($Y$ fixed at $Y_0$) 234
9.5 Successive shifts of the $MC(Y)$ curve due to increase in $Y$ (efficiency-increasing technological progress is fixed) 235
9.6 Successive shifts of the $MC(Y)$ curve due to efficiency-increasing technological progress 235
9.7 Successive shifts of the $MC(Y)$ curve due to increases in both $Y$ and efficiency-increasing technological progress 236
9.8 The $MB(Y)$ curve 237
9.9 Shift of the $MB(Y)$ curve due to increase in $Y$ from $Y_0$ to $Y_1$ (preferences fixed) 238
9.10 Shift of the $MB(Y)$ curve due to increased preference for environmental quality ($Y$ fixed at $Y_0$) 238
9.11 Successive shifts of the $MB(Y)$ curve due to increases in both $Y$ and preference for environment quality 239
9.12 Deriving the Environment-Income Curve (EIC) 244
9.13 Per capita GDP and per capita energy consumption of 12 selected nations, 1980–2005 247
9.14 Average per capita GDP versus average per capita energy consumption, 1980–2005 (118 countries) 248
9.15 Average per capita GDP versus average per capita energy consumption, 1980–2005 (low-income, middle-income, and high-income countries) 251
10.1 Planetary boundaries diagram overlaid with an inner boundary of elements of sustainable human well-being 270
11.1 World biocapacity and world area, 2008 289
11.2 Humanity’s ecological footprint (EF) versus world biocapacity (BC), 2008 294
11.3 Nations with the largest biocapacities, 2008 295
11.4 Change in per capita footprint and population in Senegal since 1961 297