## Index

<table>
<thead>
<tr>
<th>Author</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abramovitz, M.</td>
<td>15</td>
</tr>
<tr>
<td>Adler, E.</td>
<td>143</td>
</tr>
<tr>
<td>African Growth Opportunity Act (AGOA)</td>
<td>23</td>
</tr>
<tr>
<td>Agarwal, J.P.</td>
<td>5</td>
</tr>
<tr>
<td>Aitken, B.J.</td>
<td>8</td>
</tr>
<tr>
<td>Akamatsu, K.</td>
<td>4, 6</td>
</tr>
<tr>
<td>Alavi, R.</td>
<td>118, 119</td>
</tr>
<tr>
<td>Albrink, J.</td>
<td>189</td>
</tr>
<tr>
<td>Allen, G.C.</td>
<td>2, 5, 18, 95</td>
</tr>
<tr>
<td>Amin, Idi</td>
<td>73</td>
</tr>
<tr>
<td>Amin, S.</td>
<td>4</td>
</tr>
<tr>
<td>Amsden, A.O.</td>
<td>6</td>
</tr>
<tr>
<td>Andersson, U.</td>
<td>13</td>
</tr>
<tr>
<td>Angola</td>
<td>12</td>
</tr>
<tr>
<td>Aoki, M.</td>
<td>2, 15</td>
</tr>
<tr>
<td>Ariffin, N.</td>
<td>19, 115, 132, 142</td>
</tr>
<tr>
<td>Arrow, K.</td>
<td>15</td>
</tr>
<tr>
<td>Audretsch, D.</td>
<td>17</td>
</tr>
<tr>
<td>Bain, J.</td>
<td>12</td>
</tr>
<tr>
<td>Balassa, B.</td>
<td>97</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>12, 15</td>
</tr>
<tr>
<td>Baptista, M.</td>
<td>143</td>
</tr>
<tr>
<td>Baran, P.</td>
<td>3</td>
</tr>
<tr>
<td>Barclay, L.A.</td>
<td>168</td>
</tr>
<tr>
<td>Barnes, J.</td>
<td>18, 50</td>
</tr>
<tr>
<td>Bartlett, C.A.</td>
<td>13, 168</td>
</tr>
<tr>
<td>Behrman, J.N.</td>
<td>6</td>
</tr>
<tr>
<td>Belderbos, R.G.</td>
<td>115</td>
</tr>
<tr>
<td>Bell, M.</td>
<td>18, 19, 115, 132</td>
</tr>
<tr>
<td>Bercovich, N.A.</td>
<td>142, 164</td>
</tr>
<tr>
<td>Best, M.</td>
<td>6, 14, 18, 115, 167, 168</td>
</tr>
<tr>
<td>Bhagwati, J.</td>
<td>7</td>
</tr>
<tr>
<td>Bigsten, A.</td>
<td>31</td>
</tr>
<tr>
<td>Birkinshaw, J.M.</td>
<td>13, 168</td>
</tr>
<tr>
<td>Black, A.</td>
<td>50</td>
</tr>
<tr>
<td>Blomström, M.</td>
<td>8</td>
</tr>
<tr>
<td>Boeing</td>
<td>14</td>
</tr>
<tr>
<td>Borrrus, M.</td>
<td>173</td>
</tr>
<tr>
<td>Brazil</td>
<td>4, 12, 20, 142–65, 174</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>conclusions</td>
<td>164–5</td>
</tr>
<tr>
<td>economic background</td>
<td>142, 143</td>
</tr>
<tr>
<td>export sector</td>
<td>146, 156, 158–61</td>
</tr>
<tr>
<td>foreign direct investment in</td>
<td>23, 143–6</td>
</tr>
<tr>
<td>human capital</td>
<td>146–8</td>
</tr>
<tr>
<td>local sourcing</td>
<td>144, 151, 156, 158–61</td>
</tr>
<tr>
<td>mergers</td>
<td>152</td>
</tr>
<tr>
<td>methodology and data</td>
<td>146–54</td>
</tr>
<tr>
<td>owner-managed firms</td>
<td>153</td>
</tr>
<tr>
<td>process technology</td>
<td>149</td>
</tr>
<tr>
<td>productivity</td>
<td>146, 156, 158–61</td>
</tr>
<tr>
<td>research and development (R&amp;D)</td>
<td>143, 149</td>
</tr>
<tr>
<td>results of study</td>
<td>154–63</td>
</tr>
<tr>
<td>statistical differences</td>
<td>156–8</td>
</tr>
<tr>
<td>statistical relationships</td>
<td>158–63</td>
</tr>
<tr>
<td>skills</td>
<td>148, 156, 158–61</td>
</tr>
<tr>
<td>statistical analysis</td>
<td>153–4</td>
</tr>
<tr>
<td>technological capabilities</td>
<td>146–53</td>
</tr>
<tr>
<td>technological intensity</td>
<td>151, 156–8, 161–3</td>
</tr>
<tr>
<td>trade unions</td>
<td>150</td>
</tr>
<tr>
<td>wages</td>
<td>150, 156</td>
</tr>
<tr>
<td>Business School (BS) literature</td>
<td>13</td>
</tr>
<tr>
<td>Cambodia</td>
<td>12</td>
</tr>
<tr>
<td>Cantwell, J.</td>
<td>6, 13</td>
</tr>
<tr>
<td>Capannelli, G.</td>
<td>5, 115</td>
</tr>
<tr>
<td>Cardoso, F.H.</td>
<td>6, 144</td>
</tr>
<tr>
<td>Cassiolato, J.E.</td>
<td>142, 143, 164</td>
</tr>
<tr>
<td>Caves, R.</td>
<td>8</td>
</tr>
<tr>
<td>Chandler, A.</td>
<td>11</td>
</tr>
<tr>
<td>Chile</td>
<td>12</td>
</tr>
<tr>
<td>China</td>
<td>6, 12, 177</td>
</tr>
<tr>
<td>Cho, D.S.</td>
<td>173</td>
</tr>
<tr>
<td>Chrysler</td>
<td>14</td>
</tr>
<tr>
<td>Cimoli, M.</td>
<td>144, 145, 164</td>
</tr>
<tr>
<td>clusters</td>
<td>13–14</td>
</tr>
<tr>
<td>collective action</td>
<td>15</td>
</tr>
<tr>
<td>Common Market of East and Central Africa (COMESA)</td>
<td>32</td>
</tr>
<tr>
<td>competition, Marxist approach</td>
<td>3, 4</td>
</tr>
<tr>
<td>competitiveness</td>
<td>17</td>
</tr>
</tbody>
</table>
Index

Corcoran, E. 189
Costa, I. 142, 164
Costa Rica 20, 27, 167–90
economic upgrading 172–4
electronics industry 27, 167, 168, 169, 172, 177–90
foreign direct investment in 171
Intel 27, 167–8, 169, 170, 177–80
reasons for location 178–80
supplier networks 180–90
methodology and data 169–70
Coughlin, P. 30
Creamer, D.B. 6
creative destruction 3, 9
crowding out thesis 5
Dahman, C. 143, 144
Dedrick, J. 18
development
investment model of 3
underdevelopment model 3
Deyo, F.C. 16
Dhanani, S. 96
division of labour 3, 9
Dolan, C. 18
Doner, R. 2, 15
Donnithorne, A.G. 2, 5, 18, 95
Doraisamy, A. 120
Dosi, G. 11, 13, 15
Doy, Y. 13, 168
Dunning, J.H. 5, 6, 11, 12, 13, 14, 18
electronics industry
Costa Rica 27, 167, 168, 169, 172, 177–90
Intel 27, 167–8, 169, 170, 177–80
supplier networks 180–90
internationalization of 174–5
semiconductors 175–7
Emmanuel, A. 6
Enwright, M.J. 13
Ernst, D. 14, 18, 19, 167, 176, 186
Evans, P. 144
export sector
Brazil 146, 156, 158–61
Indonesia 97, 99, 110
Kenya 33–4, 43
Malaysia 117–21, 121–2, 132, 136, 137, 140
South Africa 52, 61
Uganda 76, 78, 86, 91
Faletto, E. 144
Farinelli, F. 18
Fiat 14
Figuieredo, P. 19, 115, 142
Fischer, W.A. 6
Fonda, S. 173
Ford 14
foreign direct investment (FDI) 1
Brazil 23, 143–6
Indonesia 23, 96–9
Kenya 23, 30–31, 32, 46
Malaysia 20, 115, 116–21
Marxist approach 3–4
neoclassical approach 7–9
South Africa 23, 51, 69
structural/institutional approaches 4–7
study of 19–27
Uganda 23, 72, 74, 91–2
foreign firms 1–2
alternative approach 9–19
case studies see individual countries
Marxist approach 3–4
neoclassical approach 7–9
structural/institutional approaches 4–7
study of 19–27
Frank, A.G. 3, 4
Fransman, M. 189
Freeman, C. 13
friendship relationships 2
Fristak, C. 143, 144
Frobel, F. 3, 4
Furtado, C. 6
Gachino, G. 23, 30, 31
Gelb, S. 50, 52
General Motors 14
Gereffi, G. 13, 17, 63, 144, 173
Gerschenkron, A. 15
Ghose, A.K. 16, 55
Ghoshal, S. 13, 168
Glenday, G. 31, 32
Goldstein, A. 143
Gonzalez, A. 174, 179
government and the state 15
attraction of foreign firms by 4
Greer, D. 12
Index

Guerriero, P. 13, 14, 15, 167

Haddad, M. 8
Hamilton, Alexander 13
Harrison, A. 8
Heckscher-Ohlin model 7
Hill, H. 95, 97
Hirschman, A. 4, 9, 56, 151
Hobday, M. 18, 115, 132
Hoffman, L. 117
Hong Kong 174
Hsing, Y.T. 177
Hughes, H. 7
human capital 5, 14
Brazil 146–8
Indonesia 101
Kenya 34, 36
Malaysia 122–4
South Africa 53–4, 60, 61, 64, 68
Uganda 77–8, 86, 87–9, 91
Humphrey, J. 18
Hymen, S. 12

Ikiara, G.K. 30
India 6
Indonesia 4, 15, 20, 95–112, 177
conclusions 111–12
economic background 95–6
export sector 97, 99, 110
foreign direct investment in 23, 96–9
human capital 101
methodology and data 99–106
owner-managed firms 104–105
process technology 101–102
research and development (R&D) 102, 111
results of study 106–11
statistical differences 106–107
statistical relationships 108–11
statistical analysis 105–106
technological capabilities 99, 110–11
technological intensity 102–103
wages 103, 110–11
industrial policy (IP) literature 12, 13
industries, selection of 23–7
infrastructure 19–20
innovation
foreign firms and 2
systems of 1, 9, 12, 13, 19, 20
institutional economics 4–5

Intel 27, 167–8, 169, 170, 177–80
reasons for location in Costa Rica 178–80
supplier networks 180–90
deepening efforts 189–90
high-technology suppliers 184
input-output dynamics 183
Intel-driven chain 185–8
other suppliers 184
relocation of suppliers 180–81
International Labour Organization (ILO) 16
international trade 7
see also export sector
investment, model of development 3
Ireland 1, 4
Israel 12
Italy 14
Japan 1
Jenkins, R. 144
Johnson, C. 15
joint ventures
Kenya 39
Uganda 80

Kaldor, N. 13, 15
Kalecki, M. 3
Kaplinsky, R. 30
Kasekende, L.A. 23, 73, 74
Katz, J.M. 142, 144, 145, 164
Kenya 2, 20, 30–47
conclusions 46–7
economic background 30, 31–2, 72
export sector 33–4, 43
foreign direct investment in 23, 30–31, 32, 46
human capital 34, 36
methodology and data 32–41
process technology 36–7
productivity and export performance 33–4, 43
research and development (R&D) 37
results of study 41–6
statistical differences 41–3
statistical relationships 43–6
skills 36
statistical analysis 40–41
technological capabilities 34–40
technological intensity 38, 44–6
Index

wages 38, 46
Kimuyu, P. 31, 32
kinship relationships 2
knowledge 8, 9, 15
flows 14
foreign firms and 2
Kojima, K. 7
Korea (South) 1, 5, 12, 15, 23, 174, 176
Kraemer, K.L. 18
Kumar, R. 18

labour
division of 3, 9
labour market 16–17
see also human capital; skills
Lai, Y.W. 115
Lall, S. 5, 6, 18, 56
Langdon, S. 30
Lastres, H.M.M. 142, 164
Leachman, R. and C. 176
learning
foreign firms and 2
technology and 1
Lenin, V.I. 3
Lewis, A. 13
Leys, C. 30
Liberia 12
Lim, L.Y.C. 5
Lin, Y. 8, 167, 189
List, Friedrich 13
literacy 17
local sourcing
Brazil 144, 151, 156, 158–61
Malaysia 127, 136
South Africa 56, 63
Lorentzen, J. 18, 50
Lundvall, B.A. 13
Luxemburg, Rosa 3, 4
Malaysia 7, 14, 115–40, 177
conclusions 139–40
economic background 115–16
export sector 117–21, 121–2, 132, 136, 137, 140
foreign direct investment in 20, 115, 116–21
human capital 122–4
local sourcing 127, 136
methodology and data 121–30
owner-managed firms 128
process technology 124–5
productivity 121–2, 130, 133, 139–40
research and development (R&D) 125–6
results of study 130–39
skills 124, 132, 136, 138
statistical analysis 129–30
technological capabilities 122–9
technological intensity 126, 132–3, 137–9
wages 120, 126–7, 133, 137, 138, 140
Malik, O. 189
Mansfield, E. 6, 15
markets, technical change and 3
Markusen, A. 14
Marshall, Alfred 7, 14
Marx, Karl 3, 4
Marxist approaches 3–4
Mathews, J.A. 6, 15, 173
Mendez, P. 167, 183
mergers, Brazil 152
Mexico 12, 23, 174
Mill, John Stuart 13
Mohd Nazari, I. 115
Monge, J. 188, 189
Morémore, M. 144, 168
Moxon, R.W. 5
Mudambi, R. 13
Mueller, W.F. 5
multinational corporations (MNCs) see
foreign firms
Murray, R. 4
Muto, I. 4
Myrdal, G. 13
Mytelka, L.K. 18, 143, 168
Narayanan, S. 115
Narula, R. 12, 76
Ndii, David 31, 32
Nelson, R.R. 13
neoclassical economics 7–9
Newfarmer, R. 5, 144
Nissan 14
Nyong'o, P.A. 30
Obote, Milton 73
Obwana, M. 31
Ofreneo, R. 18
Okamoto, Y. 95
owner-managed firms
Index

Brazil 153
Indonesia 104–105
Malaysia 128
South Africa 57, 59
Uganda 81

Pang, E.F. 5
Pangestu, M. 95, 97
Panglaykim, J. 97
Pavitt, K. 11, 13, 15, 18
Penrose, E. 14
Perlman, B. 190
Persson, H. 8
Peru 20
Philippines 5, 7, 12, 17, 177
Phillips, L.C. 31
Pietrobelli, C. 13, 14, 15
Piore, M. 16, 17
Polanyi, M. 14
Portelli, B. 76
Porter, M.E. 13
Prahalad, C.K. 13, 168
Pratten, C. 17
Prawiro, R. 97
process technology
Brazil 149
Indonesia 101–102
Kenya 36–7
Malaysia 124–5
South Africa 54, 63
Uganda 78, 89
productivity
Brazil 146, 156, 158–61
Kenya 33–4, 43
Malaysia 121–2, 130, 133, 139–40
productivity triad 14
South Africa 52, 61, 64, 68
Uganda 76, 86, 87–9, 96
public goods 9, 15
Putman, R.D. 13
Pyke, F. 16
Quadros, R.C. 18, 145
Rasiah, R. 2, 5, 6, 7, 8, 12, 14, 15, 17, 18, 23, 31, 56, 95, 97, 115, 116, 118, 120, 125, 132, 151, 167, 168, 170, 177, 189, 190
Reindhart, A. 189
relational assets 12
research and development (R&D)
15–16, 17, 34
Brazil 143, 149
foreign firms and 6
incentives 9
Indonesia 102, 111
Kenya 37
Malaysia 125–6
South Africa 54–66, 60
Uganda 78–9, 89, 91
Reuber, G.L. 7
Ricardo, David 3, 7
Robison, R. 97
Ronstadt, R. 6
Sabel, C. 16, 17
Saxenian, A.L. 6, 14
scale economies 17
Scherer, F. 12, 17
Schumpeter, J.A. 3, 15
semiconductors 175–7
Sengenberger, W. 16
Singapore 1, 4, 5, 6, 8, 12, 16, 23, 173, 174, 176
Singer, H. 5
Sjoholm, F. 8, 95
skills 14
Brazil 148, 156, 158–61
Kenya 36
Malaysia 124, 132, 136, 138
South Africa 54, 61, 64, 68
Uganda 78, 87
Smith, Adam 3, 9, 13
Solow, R.E. 7
South Africa 20, 32, 50–70
conclusions 69–70
export sector 51–2, 52, 61
foreign direct investment in 23, 51, 69
human capital 53–4, 60, 61, 64, 68
local sourcing 56, 63
methodology and data 52–60
owner-managed firms 57, 59
process technology 54, 63
productivity 52, 61, 64, 68
research and development (R&D)
54–66, 60
results of study
statistical differences 61–3
statistical relationships 64–9
skills 54, 61, 64, 68
Index

statistical analysis 59–60

- technological capabilities 52–9
  - technological intensity 55, 61, 66–9
  - wages 55–6, 61, 63, 64

Spar, D. 167, 179, 183, 190

- specificity 17

spillovers 2, 5, 8, 18

Sraffa, Piero 3

Streeten, P. 5, 56

- structural economics 4–5

Sung, G.H. 174

Sunkel, O. 6

- supplier networks, Intel 180–90
  - deepening efforts 189–90
  - high-technology suppliers 184
  - input-output dynamics 183
  - Intel-driven chain 185–8
  - other suppliers 184
  - relocation of suppliers 180–81

Taiwan 1, 5, 8, 12, 15, 174, 176

Takahashi, D. 189

Tam, T. 173

Tan, T.N. 117

Tanzania 15, 72

- technology
  - alternative approach 9–19
    - capabilities 18–19
      - Brazil 146–53
      - Indonesia 99, 110–11
      - Kenya 34–40
      - Malaysia 122–9
      - South Africa 52–9
      - Uganda 77–81, 86, 89–91
  - intensity
    - Brazil 151, 156–8, 161–3
    - Indonesia 102–103
    - Kenya 38, 44–6
    - Malaysia 126, 132–3, 137–9
    - South Africa 55, 61, 66–9
    - Uganda 79

- learning and 1

Marxist approach 3–4

- neoclassical approach 7–9

- structural and institutional approaches
  - 4–7

- trajectory of 9

Thailand 5, 7

Thee, K.W. 95, 97, 98

Todaro, M. 31

- Toyota 13

- trade unions 16
  - Brazil 150

- training 15

- transnational corporations (TNCs) see
  - foreign firms

Uganda 2, 20, 31, 72–92

- conclusions 91–2

- economic background 72, 73–6
  - export sector 76, 78, 86, 91
  - foreign direct investment in 23, 72, 74, 91–2
  - human capital 77–8, 86, 87–9, 91
  - joint ventures 80
  - methodology and data 76–82
  - owner-managed firms 81
  - process technology 78, 89
  - productivity 76, 86, 87–9, 96
  - research and development (R&D) 78–9, 89, 91
  - results of study 82–91
  - statistical differences 82–6
  - statistical relationships 87–91
  - skills 78, 87
  - statistical analysis 81–2

- technological capabilities 77–81, 86, 89–91

- technological intensity 79

- wages 80, 86, 89

- underdevelopment model 3

United Kingdom, foreign investment in 5

United States of America 14

- African Growth Opportunity Act (AGOA) 23

Urata, S. 8, 112

Veloso, F. 18

Vergara, S. 168

Vernon, R. 6

Vieto, J. 174, 179, 183

Wade, R. 6

- wages 17

  - Brazil 150, 156
    - Indonesia 103, 110–11
    - Kenya 38, 46
    - low wage economies 3, 4
    - Malaysia 120, 126–7, 133, 137, 138, 140

Rajah Rasiah - 9781845423551
Downloaded from Elgar Online at 04/04/2019 07:27:22PM via free access
<table>
<thead>
<tr>
<th>Index</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>South Africa 55–6, 61, 63, 64</td>
<td>Wolfe, E. 8</td>
</tr>
<tr>
<td>Uganda 80, 86, 87, 89</td>
<td>Wong, S.H. 181, 189</td>
</tr>
<tr>
<td>Wallerstein, I. 3</td>
<td>Wood, E. 50</td>
</tr>
<tr>
<td>Warren, B. 4</td>
<td>You, J.I. 16</td>
</tr>
<tr>
<td>Wessner, C.W. 15</td>
<td>You, P.S. 7</td>
</tr>
<tr>
<td>Westphal, L.E. 18</td>
<td>Young, A. 3, 9</td>
</tr>
<tr>
<td>Wignaraja, G. 18, 19</td>
<td>Zeitlin, J. 16</td>
</tr>
<tr>
<td>Wilkinson, F. 16</td>
<td></td>
</tr>
<tr>
<td>Winter, S.G. 13</td>
<td></td>
</tr>
</tbody>
</table>