Index

a priori
  definition, 20, 22, 23, 69, 400, 451, 529
  see also deductive and inductive
action research method
  applied, 377
  characteristics, 379
  definition, 375–6
  process systems model, 382
types, 382
AMOS
  software, 156
  see also LISREL, Minitab, SEM, SPSS
analysis
  between case, 36
  cluster, 7
cross case, 3, 23
exploring statistical, 77
level of, 31–4, 35, 36, 40–2, 56, 59
meta, 52
narrative, 55, 60, 158
path, 171
themeic text, 4, 40, 42
unit of, 34, 35, 59, 199
variance, 36
within case, 323
analysis of covariance (ANCOVA), 8, 74
analysis of variance (ANOVA), 8, 74
analytic induction
  definition, 356
  see also deductive
APA (American Psychological Association)
  principles, 88–9
attribute units, 347
axiology, 8, 18–21, 26, 32, 86, 97–8, 227–8, 398, 546
between group analysis, 8, 18, 32, 48, 73, 123, 128, 135, 208, 482, 493
binary response model, 189
bootstrapping, 169
bracketing, 474, 496
CAQDAS, 448
case study, 321, 351
  approach, 326, 350
approaches, 328
attributes of, 56
concerns, 321
definition, 326, 341
design, 356
  see also multiple case study
central limitation theory, (CLT), 547
chi square
  definition, 8, 34, 234
  see also non-parametric
comparative analysis, 356
confirmatory factor analysis (CFA)
  applications, 161–2
definition, 160
  see also SEM
constant comparative method, 357
constructivism, 4, 8
  characteristics, 25
definition, 17, 25–6, 476
  explanation, 26
  similar, 26
typology, 64
variations, 27
constructivist
  approach, 452
episistemology, 498
grounded theory, 447–9
ideology, 4, 53–4, 56, 58, 67, 72, 227, 479, 487, 493, 512, 527, 540, 546
method, 51, 57, 72
social, 60, 72
  see also constructivism and ideology
constructivist grounded theory
design, 449–51
differences, 447
limitations, 452
overview, 44
correlation
  application, 37
technique, 36
Cronbach alpha
  application, 247
definition, 20
  see also reliability, validity
cross case analysis, 405
cross cultural research, 81–2
### Index

- **data analysis**, 501
- **data collection**, 27, 519, 522
- **de facto**
  - delimitations, 519, 522
  - deontological, 19
  - method, 47, 49–50, 223
- **deontological**
  - definition, 19
  - *see also* teleological
- **dependent variable**, 37, 52, 68, 73, 74, 76, 134, 136, 145, 148, 150
- **descriptive statistics**
  - applications, 122, 130, 233, 255
  - definition, 8, 35, 38, 48, 64, 67, 73
  - *see also* inferential statistics
- **direct observation**, 412
- **distributional analysis**, 28
- **effect size**, 66, 122, 129, 170
- **eidetic phenomenology**, 58, 465, 477, 479, 480, 481, 490, 493–4, 496, 499
- **emancipatory phenomenology**, 479, 529
  - emergent interpretative case study
  - method, (grounded theory), 353–4
  - empirical literature, 421
- **epistemological**, 20, 24, 86, 210, 361
  - epistemology, 18, 20, 24, 86, 210, 361
  - essences, 504
  - ethnographical approach, 491
  - ethnography, 414
  - ex post facto, 76
- **experiment**, 19, 37, 66, 74, 142, 144, 149, 150, 211, 321, 343, 347
  - between group, 37
  - factorial, 151, 234
  - field, 51, 212
  - quasi-experiment, 36, 51–3, 127, 142, 144, 147–50, 351
  - true experiment, 36, 51, 143, 149
- **experimental research design**
  - advantages, 144
  - basics, 142
  - types, 144
- **factorial design**, 146
- **formal research methods**, 47
- **general analytic techniques**, 55, 59, 72
  - generalization
    - deductive, 39, 40, 346
    - goal, 31, 34, 38–9, 41, 68, 321, 401
    - inductive, 39, 40, 346
    - target, 39
- **goodness of fit**
  - application, 397, 407–8
  - significance, adjusted goodness of fit
    - index (AGFI), 159, 234
- **Hair**
  - CFA SEM benchmarks, 156
  - multivariate design though
    - leader, 66
  - sample significance benchmarks, 71–4
  - hermeneutic phenomenology, 26, 58, 479–81, 493–4, 502–4, 506–7
- **hypotheses**
  - design examples, 41, 42, 53, 76
  - variations, 171, 257, 321, 346, 353
- **ideology**, 3, 4, 18, 19, 22
- **imaginative variation**, 500
- **inferential statistics**
  - applications, 23, 42–3, 54, 74–5
  - *see also* parametric and non-parametric
- **interpretative**
  - application, 310–14, 464, 504
  - comparison to constructivism, 72
  - ideology definition, 23
  - *see also* constructivism and ideology
- **interpretivist**
  - ideology definition, 53–4, 160
  - *see also* constructivism and ideology
- **iterative pragmatic case study method**
  - definition, 365
  - *see also* case study
- **Kendall’s Tau**
  - application, 42
  - specification, 137
  - *see also* inferential and non-parametric
    - statistics
- **level of analysis**, 33, 35, 56, 59
- **LISREL**
  - software, 156
  - *see also* SEM
- **literature review**, 52, 57, 63, 68, 104–5, 110, 122, 124, 128, 130–1, 224, 227, 362, 395, 520
  - narrative, 133
  - steps in developing, 115–18
- **lived experience**, 60, 106, 165, 488
- **logistic regression**
  - definition, 188
  - example, 190
MANCOVA
definition, 8, 74
see also multiple regression
Mantel-Haenszel analysis, 236
meaning units, 500
methodological literature, 421
methodology, 481
methods
definition and application, 5, 47, 49, 51
multi, 52
research, 5, 65
scientific, 47, 55, 343
Minitab
software, 234
see also SPSS
modeling
definition, 263
see SEM
Monte Carlo simulation, 265–6
multiple case study
application, 293–300
in financial forecasting, 273
goal, 329
guidelines, 320
method, 55–6, 350, 355, 358, 360
multiple case, 5, 56, 323, 326–7, 337
problems, 321
process, 359
purpose, 320
research, 323, 324, 345
similarity, 58
single, 37, 59, 360
strengths, 326
technique, 52
use, 71
write up, 36
multivariate graphical technique
(MCA), 234
natural science, 343
nodes
case, 454
definition, 453
free, 454
NVivo software, 454
tree, 456
non experimental
definition, 241–5, 253
see also experiment
normal distribution, 547
null hypotheses
definition and usage, 128
see also hypothesis

NVivo
definition, 447
see also nodes
odds ratio
application, 191–3
calculation, 189
see also logistic regression, risk
ontological, 86, 218
ontology, 21, 86, 87, 229
operations research
definition, 34, 53
research example, 396–7, 402
parametric statistics
application and definition, 36, 73–4, 547
inferential, 32, 42, 74
non-parametric, 74, 234, 236, 396, 547
see also statistics
participant observation, 414, 423–3
participatory, 27, 505, 513–14
Pearson's r, 177
phenomenology method, 40, 465, 482
positivism
ideology definition, 4, 8, 18, 22, 64, 88
see also constructivism, pragmaticism
and interpretivism
positivist
researcher philosophy, 5, 21, 22, 26, 31–2, 36–7, 40, 42, 51
see also positivism
post-positivist
researcher philosophy, 23, 26, 350–2
see also positivism
pragmatic
definition, 8, 21, 23–4, 34, 58, 94, 99, 350
see also constructivism, pragmaticism
and interpretivism
pragmatism, 8, 23
see also constructivism, pragmaticism
and interpretivism
pragmatist, 51, 53
qualitative research, 492, 513–14, 515–16
quantitative research, 492
quasi - experimental research design
advantages, 149
disadvantages, 147
types, 148
RAND function, 267
reductionism, 478, 499, 503
reflective journal, 498–9
regression, 36, 174–5, 183
  multiple, 182–4
  ordinary least square (OLS), 182 (see also logistic regression)
  single, 181
  specialty, 188
reliability
  definition, 68–9, 71, 351, 522–3
  see also Cronbach alpha
research
  design typology, 4, 7, 11
  ideology, 18, 22, 31
  paradigm, 377
  questions, 42
  survey, 200
risk
  application, 192–4, 228, 266, 463
  behavior, 176–7, 231, 439, 534
  calculation, 137, 280, 554
  comparison techniques, 230, 306
  ethics, 50, 122–3, 524
  participant risk, 50, 325
  portfolio management, 233
  socio-cultural factor, 7, 136, 398
  surveys, 225
  see also logistic regression, Monte Carlo, odds ratio
sample
  definition, 519, 522
  see also sampling technique
sampling
  assumptions, 155
  basics, 159
  definition, 64–5, 153
  limitations, 155
  model identification, 157
  snowball sampling, 364
  Systems Model of Action Research Process, 382
sampling technique
  selective, 450
  technique, 63, 65
  theoretical, 449
scatter plot, 175
selective coding
  application, 449
  see also NVivo
significance of study, 519
social science, 343–4
SPSS
  application, 160, 163, 189, 234
  software, 190
  see also AMOS, LISREL, Minitab
strategy, 4, 8, 32, 43, 68
structural equation modeling (SEM)
  application, 160
  comparison with other techniques, 8, 51, 75
  definition, 153–4
  model fit, 158–9
  path analysis, 156–7
  usage, 69
  see also CFA
structural regression model
  application, 163–4
  see also multiple regression and SEM
techniques
  cause and effect, 76
  common, 52
  Confirmatory Factor Analysis (CFA), 171
  cross method, 63, 78, 405
  free variation, 478
  less common, 53
  operations, 59
  predictive, 73
  regression, 42
teleological
  philosophy, 19 (see also deontological)
t test, 356
  thematic analysis, 508
  theoretical framework, 353
  theoretical sensitivity, 355
  transcendental subjectivity, 476
  transferability, 506
  user generated media, (UGM), 529
  within method triangulation, 507
validity
  construct, 69
  definition, 68, 69, 71–2, 135
  discriminant, 69–70
  external, 69, 71, 127, 150, 323
  internal, 69, 150, 323, 523
  predictive, 136–7
Van Kaam
  method steps, 529
  technique, 528
<table>
<thead>
<tr>
<th>Variable</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>categorical, 38</td>
<td></td>
</tr>
<tr>
<td>control, 243</td>
<td></td>
</tr>
<tr>
<td>ordinal, 38</td>
<td></td>
</tr>
<tr>
<td>ratio or continuous, 38</td>
<td></td>
</tr>
<tr>
<td>tangible, 27</td>
<td></td>
</tr>
<tr>
<td>units, 347</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>within method triangulation</th>
<th>Definition, 507</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>see also validity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yin</th>
<th>Case study throught leader, 362</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>see also case study</td>
</tr>
</tbody>
</table>