### Subject Index

<table>
<thead>
<tr>
<th>Term</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB design</td>
<td>166–7</td>
</tr>
<tr>
<td>ABAB design</td>
<td>167–8</td>
</tr>
<tr>
<td>abduction</td>
<td>16, 222</td>
</tr>
<tr>
<td>access to settings</td>
<td>45–7, 124</td>
</tr>
<tr>
<td>acquiescence response set</td>
<td>116</td>
</tr>
<tr>
<td>action research</td>
<td>12, 102, 179</td>
</tr>
<tr>
<td>aims and objectives</td>
<td>204</td>
</tr>
<tr>
<td>analysis</td>
<td>4, 217–32, 245</td>
</tr>
<tr>
<td>cross-case</td>
<td>219</td>
</tr>
<tr>
<td>of qualitative data</td>
<td>218–24</td>
</tr>
<tr>
<td>of quantitative data</td>
<td>224–32</td>
</tr>
<tr>
<td>in single-case designs</td>
<td>169</td>
</tr>
<tr>
<td>anchoring of rating scales</td>
<td>115–16</td>
</tr>
<tr>
<td>applied behavior analysis</td>
<td>164</td>
</tr>
<tr>
<td>applied research</td>
<td>12, 199</td>
</tr>
<tr>
<td>applied scientist model</td>
<td>20–24, 27</td>
</tr>
<tr>
<td>appraisal tools</td>
<td>40, 158, 244–6</td>
</tr>
<tr>
<td>appropriate methods</td>
<td>3, 32, 243</td>
</tr>
<tr>
<td>aptitude-treatment interaction</td>
<td>154</td>
</tr>
<tr>
<td>attrition</td>
<td>157</td>
</tr>
<tr>
<td>audit</td>
<td>200–201</td>
</tr>
<tr>
<td>authorship, determining</td>
<td>48, 239</td>
</tr>
<tr>
<td>baseline measures</td>
<td>165–6</td>
</tr>
<tr>
<td>Bayesian statistics</td>
<td>7, 185, 229</td>
</tr>
<tr>
<td>behavioral assessment</td>
<td>56, 129</td>
</tr>
<tr>
<td>behavioral observation</td>
<td>54, 56, 129–36</td>
</tr>
<tr>
<td>benchmarking</td>
<td>23, 212</td>
</tr>
<tr>
<td>bias</td>
<td></td>
</tr>
<tr>
<td>attributional</td>
<td>97–8</td>
</tr>
<tr>
<td>in information processing</td>
<td>7–8</td>
</tr>
<tr>
<td>observer</td>
<td>126</td>
</tr>
<tr>
<td>in questionnaire items</td>
<td>111–12</td>
</tr>
<tr>
<td>in sampling</td>
<td>182–3</td>
</tr>
<tr>
<td>in service delivery</td>
<td>210–211</td>
</tr>
<tr>
<td>Boulder model</td>
<td>20, 24</td>
</tr>
<tr>
<td>bracketing</td>
<td>34, 78–9, 222</td>
</tr>
<tr>
<td>case study</td>
<td></td>
</tr>
<tr>
<td>narrative</td>
<td>19, 23, 76, 164, 170–171</td>
</tr>
<tr>
<td>systematic</td>
<td>171–7</td>
</tr>
<tr>
<td>case tracking</td>
<td>23, 173, 213</td>
</tr>
<tr>
<td>case-control study</td>
<td>151, 163</td>
</tr>
<tr>
<td>causality</td>
<td>36, 132, 138–152, 165–6, 171, 173, 175, 205. see also validity, internal</td>
</tr>
<tr>
<td>census</td>
<td>99</td>
</tr>
<tr>
<td>central tendency</td>
<td>115</td>
</tr>
<tr>
<td>changing criterion design</td>
<td>169</td>
</tr>
<tr>
<td>checklists</td>
<td>54, 99</td>
</tr>
<tr>
<td>classical test theory</td>
<td>60</td>
</tr>
<tr>
<td>client satisfaction research</td>
<td>61, 97, 139, 213</td>
</tr>
<tr>
<td>clinical audit</td>
<td>200–202</td>
</tr>
<tr>
<td>clinical replication series</td>
<td>168–9, 173</td>
</tr>
<tr>
<td>clinical scientist</td>
<td>22–4</td>
</tr>
<tr>
<td>clinical significance</td>
<td>184, 230–232</td>
</tr>
</tbody>
</table>
clinical trials, 93, 143–4, 152–61, 191–2
Cohen’s kappa, 63, 135
coherece theory of truth, 10–11
comparison group. see control group
conceptual confound, 142
conceptual research, 9
confidentiality, 99, 192–3
confirmatory research, 2, 10, 33, 227
confounding variables, 148–9
consensual qualitative research, 86
consensus criterion of truth, 10–11
CONSORT statement, 158
constant comparative method, 223
construct, 52–7
construct validity, 57, 67–8, 145, 148–9
constructionism, 10–12, 97–83
 constructivism, 11, 81
consumer satisfaction research, 61, 97, 139, 213
content analysis, 84–5, 130
control group, 144, 151, 154–6
comparative treatment, 155–6
ethical issues, 192
expectancy and relationship, 155
no-treatment, 155
placebo, 155
treatment as usual, 155, 192
wait-list, 155
conversation analysis, 89–90, 116
correlation and causation, 140–142
correlational designs, 139–42
correlations, spurious, 141, 227
correspondence theory of truth, 10–11, 66
cost effectiveness
 evaluation of, 214–5
cost offset, 215
correlation, 210–211
cracking, 210
credibility checks, 91
criterion-referenced measures, 59
critical approaches, 89, 222
critical realism, 11, 53
Cronbach’s alpha, 61–4, 135
cross-sectional designs, 140
data
analysis (see analysis)
checking, 225
e ntry, 224–5
eploration, 226–7
reduction, 225–6
debriefing, 190
deception, 190
decoyoligist approach, 90
deduction, 14–15
demand characteristics, 53, 149
demand for services, 207–8
describing, 79
descriptive designs, 138–9
design, 4, 137–77, 162–77, 245
analysis of covariance, 154
blocking, 154
Cook and Campbell’s classification of,
146–53
correlational, 139–42
cross-sectional, 140
descriptive, 138–9
dismantling, 156
experimental, 138, 142–61, 165–70
factors, 153–4
interrupted time series, 152
longitudinal, 140
multi-factorial, 154
nonequivalent groups posttest-only,
149–50
nonequivalent groups pretest-posttest,
151–2
nonexperimental, 138–42
nonrandomized, 146–52
one-group posttest-only, 146
one-group pretest-posttest, 147–9
quasi-experimental, 146–52
randomized, 152–61
randomized groups pretest-posttest,
153–61
repeated measures, 154
single case, 162–77
small-N, 162–77
stratification, 154
time-series, 152, 169, 175
discourse analysis, 89, 126–8
discovery-oriented research, 2, 33–4, 75, 93, 123, 227
dismantling study, 156
dissemination of the findings, 4, 239–44
double-blind study, 155, 158
Duquesne phenomenological approach, 86–7
duration recording, 133
ecological validity, 145

effect size, 41, 184–5, 229–30
efficacy vs. effectiveness, 153, 157, 212
empirically supported treatments, 18, 22, 159
empiricism, 2, 9, 55
endogenous change, 147
endstate functioning, 231
environmental measures, 133
epistemology, 10–11, 54, 74, 76
equivalence analysis, 156, 229
ethical issues, 26, 188–97
in observation, 125–6
in randomized designs, 155–5, 191–2
in single-case experiments, 167
ethics committees, 46, 194–7
ethnography, 76, 90–91, 122
focused, 90–91
evaluation, 12, 198–216
aims and objectives in, 204
of cost effectiveness, 214–15
formative, 200
of outcome, 200, 212–15
of process, 200, 209–11
of service implementation, 211
structure, 200
summative, 200
event recording, 132
evidence-based practice, 18, 22–4
expectancy effects, 149
experiential knowledge, 31, 43
experimental designs, 138, 142–61, 165–70
exploratory data analysis, 226–7
exploratory research, 2, 10, 33–4, 75

factor analysis, 64, 110, 226

falsification, Popper’s view of, 14–16, 186
feminist research, 26, 89, 102–3, 222
field notes, 46, 124–5
focus groups, 102
framework approach, 85
funding, 44–5

gatekeepers, 45–6, 124
generalizability theory, 67–8
generalization. see validity, external
gold standard in criterion validity, 66
grants, 44–5

grounded theory, 85–6, 123, 186, 218, 223
groundwork stage, 4, 29–49, 179, 245

harms and benefits of research, 191–3
Hawthorne effect, 149
hermeneutic approaches, 77, 87
hypotheses, 15, 32–4
hypothesico-deductive approach, 2, 15, 33, 55, 78, 143

idiographic approach, 59, 163–5, 219
impact model, 205
implementation of research, 240
implications of findings, 235–6
incidence, 139, 206
induction, 13–16
inferences, 55–6
informant, 97, 102, 179
key, 123–4, 207
informed consent, 126, 189–97
institutional review boards, 194–5
intent-to-treat analysis, 157
interfering events, 148
internal consistency, 61, 63–4, 68, 110
internal validity, 23, 144–53, 172, 174, 213, 234
internet questionnaires, 118, 182, 187
interpretation of the findings, 4, 232–6, 245
interpretive phenomenological analysis, 77, 87
interrupted time-series design, 152
interval recording, 132
interval scales, 58–9, 62–3
interview, 99–109
qualitative, 99–109
schedule, 103–4
semistructured, 102, 107
skills, 105–9
intraclass correlation, 63, 135
introspection, 56
intuitive practitioner, 19
inventories, 99
item analysis, 226
item response theory, 68–9, 114–15
item wording, 111–13

language-based approaches, 88–91
leading questions, 105, 111
leakage, 157
life history research, 88
Likert scales, 113–16
limitations of the study, 233–4
literature review, 37–41
local clinical scientist, 21–4
locally intensive observation, 170, 185
logical positivism, 56
longitudinal designs, 140
man serialization, 158
maturational trends, 148
meaning unit, 223
measurement, 4, 36–7, 50–72, 245
combining qualitative and quantitative, 92–4, 118
facets of, 68
reliability of (see reliability)
utility of, 69–70
validity of (see validity)
measures
of change processes, 174–5
of client change, 172–4
development of, 109–19
repeated, 154
of therapeutic process, 174–5
mediating variables, 142
meta-analysis, 16, 40–41
meta-synthesis, 41
method variance, 67, 110
methodological behaviorism, 56–7, 83, 129
methodological pluralism, 3, 17, 92–3, 176, 243–4
mixed methods research, 93–4
moderator variables, 142
multiple baseline design, 168
multiple single-case design, 168
multisystemic therapy, 8
multitrait-multimethod matrix, 67
naive enquiry, 8
narrative
approaches, 11, 87–8
case study, 123, 164, 170–171
distortions, 172
recording, 132
smoothing, 171
natural experiments, 150
naturalistic case study designs, 170–171
needs assessment, 207–8
new paradigm research, 102, 179
nominal scales, 58–9, 62–3, 74, 135
nomothetic approach, 59, 163, 165
nonequivalent groups posttest-only design, 149–50
nonequivalent groups pretest-posttest design, 151–2
non-experimental designs, 138–42
non-inferiority trial, 156, 229
nonrandomized designs, 146–52
nonspecific factors, 155
normal science, 16–17
norm-referenced measures, 59
observation, 54, 120–136
advantages and disadvantages of, 121–2
covert, 121, 125–6
duration recording, 133
environmental measures, 133
ethical issues in, 125–6
event recording, 132
global rating scales, 133
interval recording, 132
narrative recording, 132
partial interval sampling, 132
participant, 76, 122–6
qualitative, 122–8
quantitative, 128–36
reliability of, 126, 134
sequential act coding, 133
time sampling, 132
validity of, 126, 134–5
whole interval sampling, 132
observer drift, 134
one-group posttest-only design, 146
one-group pretest-posttest design, 147–9
open clinical trial, 144, 147
operant behavioral approach, 15, 164
operational definition, 53, 130–132
operational policy document, 208
operationalization, 52–3
ordinal scales, 58–9, 62–3
outcomes management, 213–4
paradigms, 16–17
parameter, 180
partial interval sampling, 132
participant observation, 76, 122–6
participants, 178–97
passive observation studies, 121, 139
path analysis, 140
patient-focused research, 213–4
performance indicators, 57
personal constructs, 8, 81
personal documents, 101, 127
personal questionnaire, 21, 59, 164, 172–3
personal reasons for doing research, 24–6
personal reasons for not doing research, 26–7
phenomenology, 76–9, 97, 139
empirical, 86–7
philosophical issues
in defining research and science, 6–18
in qualitative research, 76–83
in quantitative measurement, 55–7
pilot study, 44
placebo effects, 144, 149, 153–5, 192
politics of research, 17–18, 45–7, 201–3
population at risk, 206
positivism, 26, 55–7, 74, 80, 143
postmodernism, 11, 82–3
poststructuralism, 82
power, statistical, 183–5, 228
practice-based evidence, 23, 246
practitioner-scholar model, 24
pragmatist criterion of truth, 10
prevalence, 139, 206
privacy, 192–3
professional models of research, 18–24
psychometric theory, 58–72
psychotherapy outcome research, 93, 146, 153, 230
psychotherapy process research, 129, 174–5
publication, 48, 200, 238–9
pure research, 12, 199
qualitative analysis, 218–24
qualitative research, 2, 54, 73–95, 101–9, 122–8, 219–26
categories in, 85, 221–4
evaluating, 91–2, 224
overload in, 100, 109, 218
quality assurance, 200–202
quantitative methods, 2, 50–72, 109–11, 128–136, 224–32
quasi-experimental designs, 146–52
questionnaires, 99, 110–119
questions, in self-report methods, 100–113
random assignment, 146, 152, 156–7, 192
randomized controlled (or clinical) trials, 93, 143–4, 152–61, 191–2
randomized design, 152–61
randomized groups pretest-posttest design, 153–6
Rasch analysis, 69
raters, working with, 134–5
rating scales, 113–17
rationalism, 2, 9–10, 77
reactivity of measurement, 53, 121, 126, 134, 148
realism, 10–12, 54, 80–81, 84
reflective practitioner, 19
reflexivity, 81–2
refutation, 14–16
regression to the mean, 148
reliability, 10, 60–64, 68, 110, 114–15
equivalent forms, 61, 68
inter-rater consistency, 61, 68
inter-rater, 62, 68
in participant observation, 126
in qualitative research, 91, 126
in quantitative observation, 134–5
split-half, 61
standards for, 70–71
statistics for, 62–4
test-retest, 61, 68
reliable change, 230–231
replication, 11, 76, 158, 167–70, 181, 185–7, 235
research
appraisal tools, 40, 158, 244–6
combining with practice, 18–28, 162–3, 246–7
definition of, 6–12
design (see design)
evolutionary roots of, 7, 247
journal, 30–31, 46, 106
process, 3–4
proposal, 41–4
protocol, 4, 44, 75, 98, 195
questions, 30–45, 51–2
confirmatory, 33–4
discovery-oriented, 33–4
exploratory, 33–4
sociopolitical aspects of, 17–18, 45–7, 201–3
as story, 1–2, 247
research (cont’d)
  threatening aspects of, 46–7, 201–2
  topic, 30–31
  tradition, 247
  utilization of, 240
researcher allegiance, 8, 41, 156–7
response modes, 106–7
response scales, 113–18
response sets, 116–17

sample
  achieved, 179
  convenience, 182, 187
  definition of, 179
  heterogeneous, 181
  homogeneous, 181
  intended, 179
  random, 187
  size, 183–5
  unbiased, 182
sampling, 117–18, 178–87
  alternative approaches to, 185–7
  internet, 187
  methods, 179–87
  networking, 186
  purposive, 186
  snowballing, 186
  surveys, 117–18
  theoretical, 186–7
saturation, 187, 223
scales of measurement, 58–9
  interval, 58–9, 63–4
  nominal, 58–9, 62
  ordinal, 58–9, 63–4
science, definition of, 12–18
scientific dishonesty, 7, 235
scientific revolutions, 16–7
scientist-practitioner model, 20–4, 246
secular drift, 148
selection bias, 152
self-monitoring, 134, 165
self-report methods, 54, 96–119
  advantages and disadvantages of, 97–9
  qualitative, 109–9
  quantitative, 109–19
semantic differential scales, 116
sensitivity, 66
sequential act coding, 133
service-user consultation, 43

single-case designs, 165–70
  experimental, 21, 165–70
  in neuropsychology, 164
small-N designs, 162–77
social constructionism, 11, 18, 76–7, 79–83
social desirability, 116–17
Spearman-Brown prophecy formula, 64
specificity, 66
spontaneous remission, 16, 147, 155
stakeholders, 202–3
statistic, definition of, 180
statistical conclusion validity, 144–5, 228
statistical power, 183–5, 228
statistical significance, 227–30
statistics
  analysis of covariance, 151–2, 154
  analysis of variance, 144, 163
  Bayesian, 7, 185, 229
  descriptive, 139, 225
  factor analysis, 64, 110, 226
  for reliability, 62–4
  in single-case designs, 169
  subjects, 26, 43, 102, 178–9
  survey, 99
  systematic reviews, 39–41

target complaints, measure of, 173
target population, 179–82, 205–8
target problem, 206–8
testimonial validity, 91
text-based research, 126–8
thematic analysis, 84–7, 221–4
theory, role of, 34
time-series designs, 152, 175
transcription, 219–20
triangulation, 11, 91, 93
truth, criteria of, 10–11, 66

uncontrolled selection, 150–151
uncontrolled trials, 144, 147
uniformity myths, 163
unobtrusive measures, 133
utilitarian criterion of truth, 10
utility of measures, 69–70
utilization of research, 240
Vail model, 24
validity, 10, 50, 64–72, 110, 144–6
   concurrent, 65, 68
   construct, 57, 67–8, 145, 148–9
   content, 65, 68
   convergent, 67–8
Cook and Campbell’s analysis of, 144–6
criterion, 65, 68
discriminant, 67
ecological, 145
face, 65
internal, 23, 144–53, 172, 174, 213, 234
   in participant observation, 126
   predictive, 65, 68
   in qualitative research, 91
   of self-report, 97–8
standards of, 70–71
   statistical conclusion, 145, 228
   testimonial, 91
   threats to, 146–52, 166, 174, 234
variable
   confounding, 148–9
   dependent, 144
   domains of, 52
   independent, 143
   mediating, 142
   moderator, 142
   operational definition of, 53, 130–132
   outcome, 144
   verification, 14–5
   visual-analogue scale, 113
   whole interval sampling, 132
writing style, 237–8