

- Abuse, 36, 86, 182, 222, 285, 301, 302, 329, 341, 375, 379
- Acceptance testing, 235, 244
- Accident, 12, 81–83, 198, 285, 290, 312, 330, 350, 351, 360
- Accountability, 64, 69, 174, 183, 195
- Accounting
 - association, 49
 - controls, 112
 - data, 87, 99
 - entries, 87
 - principles, 71
 - records, 299
 - standards, 84
 - unacceptable, 77, 232
- Access
 - constraints, 255
 - controls, 52, 63, 87, 181, 198, 279, 300, 305, 314, 320, 325
 - control feature, 390
 - control lists, 282, 387, 400
 - control logs, 199
 - control software, 310
 - database, 211
 - effectiveness, 410
 - inadequate, 77, 83
 - logical, 53, 83, 310
 - physical, 332–334
 - procedures, 245
 - role-based, 283
 - software, 410
 - standards, 283
 - unauthorized, 21
- Accuracy
 - auditing, 175
 - and completeness, 9, 11, 21, 22, 58, 65, 77, 99, 173, 177, 207, 263, 272, 281, 258, 272, 281
 - ethics, 182
 - sample, 119, 270
- Administration
 - centralized, 20
 - coordination, 21
 - data, 210
 - database, 13, 21
 - emergency, 316
 - release and versions, 289
 - security, 211, 297, 317
 - systems, 211
- ACF2, 314, 316
- Air conditioning, 330, 334
- Analytical
 - approach, 160
 - evidence, 40, 109
 - review, 275
 - steps, 91
- ANSI, 374
- Application, 85
 - audits, 97, appendix b
 - audit tools, 107
 - authority levels, 99
 - controls, 21, 57, 65, 66, 73, 105, 191, 264–275
 - failures, 362
 - functional capability, 314
 - integrity, 312

- Application (*cont.*)
 - interface, 360
 - of knowledge, 151
 - portfolio, 279
 - programs, 8
 - recovery, 340, 345
 - reviews, 100, 102
 - software, 12, 64, 80, 130, 251
 - software security, 86, 298
 - systems, 8, 13, 64, 210, 216, 246
- Approval
 - audit, 92, 101
 - audit program, 111
 - board, 153
 - by legal counsel, 400
 - certification, 328
 - design, 235
 - project, 234
 - run schedules, 286
 - supervisory, 111
 - technical review, 233
- Assets, 12, 31
 - access to, 81, 211, 350
 - at risk, 290, 322, 324, 341
 - classification, 52
 - control over, 230
 - examination of, 94
 - insurance, 352
 - inventory of, 222
 - liquidity of, 84
 - loss of, 77
 - register, 170, 267, 280
 - safeguarding, 50, 60, 192
 - security of, 51, 297–309
 - under control, 85, 87
- Audit
 - application tools, 107
 - charter, 24, 30, 31
 - committee, 31, 32, 38, 70, 74, 76, 144, 186
 - compliance, 104, 369
 - evidence, 39, 40, 109, 111, 112, 116, 131, 275
 - management, 98
 - operational, 106, 123, 199, 222, 292
 - planning, 77, 88, 93 225
 - procedures, 93, 104, 111, 114, 115, 130, 175, 176, 225, 274
 - program, 40, 78, 91–94, 105, 109–111, 128, 274, 275, 312, 315, 361, 372
 - report, 77, 92, 95, 96, 110, 131, 134–143, 250, 283, 305, 370
 - scope, 111
 - software, 107, 119, 128, 129–133, 225, 271, 273, 283, 313, 366
 - standards, 29, 31
 - steps, 86
 - techniques, 39, 89, 102, 103, 115, 128, 129, 133, 163, 224, 371
 - testing, 84, 94, 95, 116, 117
 - tools, 107, 128, 131, 225, 270, 282, 313, 371, 381
 - trail, 20, 54, 61, 64, 68, 89, 233, 234 270, 273, 283, 167, 360, 361, 362, 369
- Authorization, 51, 54, 65, 86, 198, 271, 314, 360, 377
 - change, 223, 234, 246, 301
 - checks, 19
 - levels, 213
 - payments, 117
 - procedures, 301
 - requests, 197
 - transactions, 41, 61, 213
 - user, 63, 199, 247
 - work, 313
- Backup, 186, 289, 330
 - adequate, 12, 62
 - appropriate, 211
 - copies, 155, 290
 - forensic, 399, 402, 403
 - lost, 187
 - media, 285
 - not taken, 198
 - production of, 284
 - recovery, 155, 212, 285
 - reconciliation, 86
 - retention, 346
 - security, 391
 - skills, 215

- taking, 209
- theft of, 331
- Batch processing, 9, 10, 67, 68, 311, 344, 361
- Binary, 4, 5, 227, 229
- Bits, 5, 10
- Budget, 110, 139, 149, 150, 154, 157, 162, 232, 243, 250, 261
- Business
 - exposure, 35, 78
 - interruption, 66, 77, 232, 351, 360
 - objectives, 26, 29, 48, 50, 51, 84, 89, 90, 104, 158, 175, 188, 192, 200, 243, 262, 275, 290, 346, 370, 389
 - process reengineering, 167, 227
 - risk, 27, 29, 35, 38
 - unclear objectives, 230, 247
- Cadbury, 70, 188
- Capacity planning, 162, 289, 291
- Carbon dioxide, 334
- Card, 332
 - credit, 178, 405, 406
 - identity, 332
 - laser, 319
 - locks, 332
 - punched, 6, 7, 9
 - smart, 311, 319
- Catastrophe, 232, 248
- Certification authority, 178, 328
- Chain of custody, 401, 403
- Change control, 196–199, 227, 245, 320, 365, 396
- Chart
 - bar, 126, 127
 - organization, 93, 287
 - PERT, 126, 154
 - Gantt, 126, 154
- Check
 - authorization, 19
 - background, 214
 - edt, 86
 - format, 23
 - lists, 142, 185, 391
 - points, 19, 20, 321
 - redundancy, 306
 - security, 317, 321
 - sums, 399
 - uniqueness, 23
- CISA, 47, 49
- CISM, 49
- COBIT, 32, 48, 57, 74, 147, 155, 185, 188, 189, 191, 192, 193, 200, 202, 279, 282
- COBOL, 131, 228
- CoCo, 8, 57, 188, 194, 195
- Code
 - access, 315, 406
 - authentication, 306, 364
 - combined, 70, 74
 - cromme, 70
 - interpretive, 229
 - object, 155, 229
 - of conduct, 182, 183, 215
 - of ethics, 49, 70, appendix a
 - the fact is, 222
 - source, 133, 155, 198, 229
 - source review, 272
 - steganography, 308
 - symbolic, 228
 - unauthorized, 398
- Collusion, 79, 81, 193
- Committee
 - audit, 31, 38, 70, 74, 76, 144, 186
 - Cadbury, 70
 - change control, 197, 199
 - compliance, 70
 - ISACA, 47
 - nomination, 70
 - non-executive, 76
 - of sponsoring organizations, 42, 50, 57, 186
 - remuneration, 70
 - standards, 163
 - steering, 174
 - technical, 201
- Communications, 5, 10, 210
 - audit, 136
 - auditing, 108
 - data, 102
 - poor, 232, 239
 - recovery, 345

- Communications (*cont.*)
 - security 301, 302, 305, 306, 321, 326, 340
 - simplex/duplex, 10
 - skills, 101
 - synchronous/asynchronous, 10
 - technical infrastructure, 279
- Compatibility, 345, 389
- Compiler, 229
- Compliance, audits, 97, 104, 369
 - committees, 70
 - controls 192, 237, 286
 - testing, 35, 77, 109, 112, 116
 - with policies, plans, 60, 67, 99
 - with ISO, 202
 - with legislative changes, 219
 - with section 404, 74, 186
 - with security policies, 322
 - with the law, 37, 50, 177, 192, 194, 199
 - with the standards, 29, 32, 46, 49
- Computer crime, 7, 397, 398, 406
- Concurrency control, 11, 211
- Confidence level, 115, 119
- Contingency plan, 54, 99, 161, 290, 291, 336, 342, 362, 371
- Continuous audit, 237, 282, 283, 288, 369
- Control
 - access, 87, 211, 300, 305, 320, 332, 334, 410
 - activity, 76
 - application, 57, 65, 66, 73, 105, 191, 264, 410
 - compensating, 62, 65
 - corrective, 61, 182, 330, 341
 - detective, 61, 142, 182, 325, 369
 - general, 73, 410
 - preventative, 61, 210, 212, 213, 300, 326, 339, 348
 - strategies, 26, 27, 36
- Conversion, 69, 130, 209, 229, 231, 242, 244, 248, 256, 259, 263, 358
- COSO, 32, 36, 49, 50, 57, 71, 73, 74, 186, 188, 192, 193, 194
- Costing, 292
- CPM, 126
- CPU, 4, 316
- Damage, 80–83, 179, 285, 299, 312, 330, 334, 335, 349, 350, 352, 360, 393
- Data dictionary/ directory systems, 18
- Data structures, 13, 14, 211, 212, 216
 - hierarchical, 14, 15, 377
 - relational model, 14, 16, 23, 166
- Database, 3, 12–23, 156, 166, 173, 175, 179, 211, 234, 279, 382
 - access, 282
 - administrator, 18, 211
 - auditing, 20
 - creation, 241
 - documentation, 20
 - intrusion detection, 329
 - management system, 410
 - operational controls, 21
 - packages, 376
 - recovery, 18
 - server, 325
 - top secret, 317
- DBMS, 3
 - auditing, 20
 - checkpoints, 19
 - defined, 13
 - packages, 18
- DD/DS, 13, 18, 21, 222
- Default, 256, 282, 312, 316, 317, 319, 324, 353, 390
- DES, 303
- Destruction, 133, 186, 281, 297, 330, 360, 406
 - accidental, 82, 351
 - assets, 77
 - confidential scrap, 156
 - data, 285
 - deliberate, 342
 - malicious, 351
 - media, 333
 - message, 303
 - total, 334
- Detective controls, 61, 142, 182, 325, 369

- Deviation, 147, 202, 288
 - from the mean, 118, 119
 - standard, 118, 119
- Diagnostic, 394
- Digital
 - agents, 282
 - certificates, 321, 327, 328, 367
 - evidence, 403
 - signals, 6
 - signatures, 181, 321, 327, 328, 366
 - to analogue, 210
 - watermarks, 307
- Disaster, 19, 53, 86, 285, 290, 299,
340–352
 - recovery, 12, 61, 155, 289, 298, 337,
339
- Distribution
 - functionality, 326
 - key, 364
 - list, 139, 142
 - normal, 114
 - output, 68, 155, 156, 180, 186, 209,
270, 285
 - pipelines, 357
 - statistical, 118, 121, 122
 - systems, 289
- Documentation, 18, 20, 21, 40, 91,
107, 233–235, 244, 374, 301, 367,
371, 395, 403
 - adequate, 69, 288
 - change, 197
 - poor, 231
 - procedures, 203
 - review, 144, 163
 - standards, 111
 - systems, 111, 153, 235
- Dump, 273, 288
- Duties
 - division of, 62, 82, 213
 - segregation of, 51, 60, 62, 63, 68,
77, 82, 86, 156, 164, 211, 212,
270, 285–287, 301, 313, 325
- End-user systems, 65
- Encryption, 11, 142, 180, 302, 326,
364
- Enterprise risk management (ERM), 36
- Environmental, 69
 - controls, 335
 - security, 52, 53, 330, 336
- Edit check, 86
- Efficiency and effectiveness, 27, 28, 46,
59, 199
 - access controls, 410
 - audit, 116, 346
 - business, 242
 - COBIT
 - control, 21, 34, 35, 39, 62, 72, 73,
89, 90, 94, 104, 134, 141, 176,
189, 193, 195, 225, 237, 271, 282,
336, 341, 353 370, 372
 - corporate governance, 186
 - degrees of, 150
 - development process, 150
 - directors, 70
 - intervention, 220
 - IS, 98, 99, 103, 170
 - mitigation, 84
 - monitoring, 51
 - operations, 60, 96, 194, 200, 287
 - project, 155, 244
 - password management, 87
 - RACE, 316
 - risk management, 44, 76, 78
 - systems, 170, 267
 - testing, 263, 347
- Electronic funds transfer, 166, 351,
357, 364, 372
- E-commerce, 37, 165, 179, 236, 328,
357–373, 394, 405
- E-mail, 142, 307, 404, 406
- Error
 - human, 77, 86, 285
 - logs, 68, 270
 - messages, 381, 386
 - rates, 117, 120, 224
- Espionage, 406
- Ethics
 - business, 69, 181
 - code of, 24, 30, 43, 44, 46, 47, 49,
Appendix a
 - impact of, 182

- Exception report, 61, 68, 132, 270
- Excessive, 313, 318
 - costs, 77, 170, 232
- Exposure, 33, 79, 104, 310, 352, 399, 406
 - business, 35, 78
 - computer, 80
 - drafts, 46
 - financial, 84
 - net, 362
 - operational, 285
 - risk, 62, 75, 79, 80, 83, 300, 341
 - systems development, 232
- Feasibility, 152, 153, 157, 197, 234, 242, 259–263
- Fidelity insurance, 214
- Findings, 94, 95, 139–141
 - audit, 39, 140, 143
 - development of, 93, 94
 - reporting, 102, 134, 144
 - reviewing, 135
 - significance of, 87
- Fire, 86, 187, 285, 301
- Firewall, 211, 282, 307, 312, 321, 322, 324, 326, 327, 329, 350, 359, 391, 394, 400
- Flood, 86, 285, 330, 340
- Flowchart, 107, 225
- Follow-up, 20, 41, 77, 96, 104, 111, 134, 135, 143, 144, 160, 195, 233, 399
- FORTRAN, 228
- Fraud, 212, 229, 232, 298, 326, 349
 - audits, 91, 104, 137
 - cyber, 177
 - detection, 33, 41
 - e-commerce, 359
 - embezzlement, 77
 - financial, 70, 350
 - investigating, 397–406
 - IS, 82
 - management, 81
 - reporting, 183
 - user, 81
- Gantt Charts, 126, 154
- Generalized audit software (GAS), 107, 128, 129, 133, 225, 271, 273, 283, 313, 372
- Generator
 - data, 107, 225, 271
 - program, 131
 - standby, 335, 345
- Governance
 - corporate, 28, 57, 69–74, 174, 215, 339, 352
 - general, 24, 44, 239, 290
 - IS/IT, 36, 69, 145, 177, 184–192
- Groups, 282
 - audit, 100–106
 - characteristics
 - extremists, 178
 - of characters, 10, 303
 - permissions
 - membership, 314
 - user, 315, 390
 - work, 386
- Hacker, 12, 83, 350, 360, 376, 378, 381, 382, 393, 394, 395, 396, 400, 405
- Hacking, 342, 360, 393, 396, 398,
- HALON, 334
- Header, 9, 363
- History, 214, 220, 374, 385
- Hot site, 340
- Housekeeping, 155, 186, 187, 209, 284, 389
- Human, 136, 333–336, 341
 - controls, 62, 66
 - decision, 61
 - discretion, 62, 66
 - element, 12, 281
 - error, 77, 86, 285
 - intervention, 61
 - judgment, 193
 - resources, 12, 147, 154, 158, 164, 190, 195, 217, 223, 227
- Humidity, 335

- Identification, 18, 98, 171, 237, 274,
 - 281, 300, 326
 - control points, 372
 - data sources, 244
 - dependencies, 78, 148
 - problem, 256
 - risk, 38, 50, 76, 332, 341
 - sender, 304, 306
 - systems and vendors, 252
 - user, 301, 319, 323, 332, 377, 379
- Identity theft, 178, 368, 405, 406
- IIA, 24, 37
 - code of ethics 43
 - development and practice aids, 46
 - standards, 43, 44, 116
 - website, 47
- Impact analysis, 159, 290
- Independence, 160
 - audit, 33, 41, 249
 - data, 13, 122
 - organization, 103
- Inquiry, 11, 68, 109, 128, 131, 270
- Inspection, 161, 284
- Insurance, 95, 130, 298, 349–353
 - coverage, 38, 299
 - fidelity, 214
 - self, 299
- Instruction, 4, 6, 111, 193, 227, 228
 - operating, 288
 - run, 8
- Intrusion detection, 279, 321, 325,
 - 329, 400, 401
- Integrated test facility (ITF), 132, 273,
 - 369
- Integrity, 77, 181
 - auditing, 346
 - competence and, 63
 - data, 22, 58, 132, 299, 360, 367,
 - 377
 - encryption, 302, 306
 - ethics, 44, 45, 50, 181, 183, 195
 - of information, 67, 199, 207, 269,
 - 300, 322
 - of messages, 142
 - of programs, 68, 270
 - of source documents, 209
 - of systems, 208, 312, 362, 389
 - of transactions, 367
 - reliability, 59
 - recovery, 316
 - security, 297
- Intelligence, 164, 229
- Interpreter, 229, 377, 385
- Internet, 11, 83, 166, 177, 178, 180,
 - 211, 236, 240, 303, 327, 328, 342,
 - 352, 375, 376, 379, 394, 396, 397,
 - 398, 404
- Interview, 26, 39, 40, 90, 94, 107, 109,
 - 111, 120, 163, 371, 402
- IPF, 155, 208, 209
- ITIL, 32, 188, 193, 194, 279, 281, 288
- ISACA, 24
 - code of ethics, 30, 43, 47, 49,
 - Appendix a
 - standards, 29, 30, 43, 47
 - website, 48
- ISO, 32, 51, 53, 153, 154, 163, 188,
 - 193, 196, 201, 202, 221, 222, 279
- ISO/OSI, 363
- Jargon, 4–9
- Job control, 8, 288
- Job description, 93, 287
- Journal, 19, 20
- Key
 - activities, 25, 26, 90
 - encryption, 364
 - management, 289, 321
 - performance areas, 27, 90
 - performance indicators, 27, 90, 159,
 - 185, 199
 - public, 303–306, 328, 367
- King, 57, 70, 182, 187, 188,
- KPAs, 27, 90
- KPIs, 27, 90, 159, 185, 199
- Labels, 68, 270, 400
- Language
 - job control, 8, 288

- Language (*cont.*)
 - programming, 8, 128, 131, 216, 228, 229, 378
- LANs, 5, 11, 55, 340, 387
- Laptop, 55, 331, 350
- Laser
 - cards, 390
 - disks, 5
- Layout, file, 130, 153, 242
 - record, 243
 - report, 92
 - wrong, 274
- Leader, 91, 167, 168, 209
- Leadership, 33, 75, 150, 175, 184
- Level
 - authority, 31
 - control, 21, 58, 94, 141
- Liability, 351, 357, 360, 362
- Liaison, 85, 101, 243, 289
- Libel, 178, 351
- Librarian
 - data, 209
 - packages, 314
 - tape, 285
- Limitations, 129, 153, 193, 386
- Linear programming, 125
- Local area networks, 5, 11, 55, 340, 387
- Log files, 312, 325, 381, 404
- Logic, 243, 272–274
- Logical
 - access, 53, 83, 86, 97, 179, 305, 326, 328
 - data structures, 211
 - design, 251
 - security, 65, 99, 108, 297, 301, 310, 313, 336
 - threats, 86, 350
 - views, 13, 18
- Loss
 - assets, 60
 - confidentiality, 59, 81, 83, 322
 - data, 331
- Magnetic media, 7, 285, 333, 403
- Maintenance
 - cost of, 246, 257
 - systems, 246, 257, 320
- Malware, 300, 312, 322, 325, 351, 353
- Management
 - abdication, 232
 - control, 24, 53, 57, 96, 185, 199, 233
 - defined, 25
 - database, 3, 8, 12, 13, 166, 211, 410
 - executive, 28, 38, 75, 81, 134, 174, 175, 184, 189, 200, 299
 - of information, 24, 36, 98, 147, 224
 - of risk, 36, 76
 - override, 79, 193
 - process, 25, 28, 48, 79, 164
 - review and approval, 233
 - structures, 25
- Mandatory
 - audit activities, 85
 - changes, 245
 - controls, 52, 66, 71, 193
 - standards, 43, 44, 46, 47, 53, 366, 408
- Market, 37, 57, 58, 152, 161, 167, 168, 171, 236, 239, 240, 271, 351, 358, 386
- Marketing, 58, 170, 172, 217, 220, 240, 267
- Master file, 87
- Materiality, 33, 40, 85
- Micro
 - auditing, 132
 - computer, 5, 367
 - computer-based software, 65, 128, 132, 236
 - film/fiche, 7, 333
 - soft, 375, 385–391
 - wave, 6, 10, 311
- Motivation, 160, 167
- Multidrop, 11
- Multiplex, 6, 210
- Needs
 - business, 20, 26, 262, 274, 280, 371, 379
 - customer, 27, 155
 - establishing, 25, 26
 - organizational, 25, 30, 58, 185, 188, 189, 191, 251

- user, 7, 65, 157, 197, 209, 221, 230, 311
- Network
 - analysts, 8
 - monitoring, 399, 404, 405
 - performance, 12
 - types, 11
- NIST, 53–56
- Non-executive, 70, 74, 76
- Non-parametric, 119, 122
- Objectives
 - audit, 29, 88, 93, 116, 135, 271, 361
 - control, 3, 9, 10, 32, 48, 59–69, 73, 77, 81, 84, 89–94, 104, 111, 143, 175, 188–194, 199, 268, 269, 282, 297, 322, 370
 - performance, 25, 27, 134
 - sdlc control, 233
- Observation, 39, 94, 95, 109, 124, 163, 286, 332, 368, 371
- Omissions, 135, 177, 351
- On-line, 9, 10, 67, 68, 128, 131, 270, 314, 324, 344, 360, 369, 375, 406
- Operating Systems, 7, 12, 64, 155, 264, 310–312, 401, 410
 - auditing, 97
 - patches, 322, 324
 - release levels, 293
 - security, 324
 - system software, 80, 210, 279
- Operators, 8, 209, 229, 283–288, 310, 320
- Organization chart, 93, 287
- Output
 - controls, 155, 264, 270
 - distribution, 68, 155, 270
- Outsourcing, 31, 95, 147, 148, 160, 161, 173, 236, 238, 239, 258, 351, 353
- Overhead, 37, 291, 292, 381, 390
- Override
 - controls, 410
 - management, 79, 82, 193
- Parallel
 - running, 244
 - simulation, 133, 273
- Parameters, 8, 97, 130, 266, 288, 311, 312, 387
- Password, 61, 87, 213, 284, 305, 312, 314, 318, 319, 324, 326, 327, 369, 378–384
- Patch, 246, 255, 257, 281, 322, 324
- Payroll, 64, 130, 161, 266, 268, 374, 390
- Performance objectives, 25–27, 90
- Peripheral Defenses, 321, 332, 333
- Peripheral devices, 4, 208, 285, 345, 375
- Personnel
 - controls, 53, 286
 - practices, 214, 287
 - procedures, 77, 81, 82
 - security, 52, 86, 298
- Phishing, 178, 406
- Physical access, 97, 179, 305, 313, 328, 331, 332, 334
- Physical damage, 330, 352
- Physical security, 65, 86, 285, 298, 301, 314, 330, 332, 336, 389
- Planning
 - audit, 29, 76, 77, 88–97, 98, 103, 107, 111, 225, 370
 - capacity, 162, 289, 291
 - contingency, 54, 99, 161, 362
 - continuity, 52, 162, 290, 291
 - conversion, 235
 - disaster recovery, 339–348
 - enterprise resource (ERP), 219
 - information systems, 207–217
 - implementation, 243
 - project, 148–154, 233, 243, 261
 - recovery, 12
 - sampling, 116
 - strategic, 37, 101, 108, 164–176, 280
 - tools, 126
- Policy
 - corporate, 396
 - framework, 181
 - insurance, 349–351
 - manual, 93
 - quality, 202
 - security, 52, 53, 211, 308, 361, 388, 391

- Post-implementation, 69, 233, 242, 245, 256, 270
- Precision, 119
- Preliminary survey, 93, 94, 110, 139, 370
- Privacy, 21, 49, 177, 179, 182, 188, 218, 297, 319, 326, 394, 417
 - breach of, 351
 - legislation, 18, 179, 350, 359
 - loss of, 359
 - rights, 398, 401
- Procedures
 - access control, 245
 - administration, 316, 317
 - audit, 48, 93, 104, 111–115, 130, 175, 176, 225, 274
 - audit evidence, 40, 109
 - authorization, 301
 - backup, 345
 - change control, 199, 227
 - control, 40, 65, 67, 79, 81, 87, 92, 103, 198, 237, 264, 345
 - monitoring, 51, 193
 - operating, 62, 271
 - personnel, 77, 81, 82, 287
 - recovery, 19, 197, 212, 288
 - review, 52
 - validation, 19
- Project
 - control, 149, 150, 227, 261
 - management, 73, 111, 125, 147, 149–151, 194, 227, 233, 249, 261, 262
- Protocol, 11, 211, 283, 291, 324, 353, 376, 379, 380, 390, 395
- Quality assurance, 43, 110, 147, 245
 - audit, 108
 - function, 69, 270
 - procedures, 87
 - responsibility, 211, 254
 - reviews, 32
 - standards, 202
 - strategies, 262
 - system, 197
- Quantitative
 - attributes, 84
 - methods, 122
 - tools, 154
- Questionnaires, 107, 371
- RACF, 314–316
- Reasonableness, 68, 110, 122, 270, 292
- Recognition, 6, 18, 43, 183, 319
- Recommendations, audit, 38, 143
- Reconciliation, 67, 86, 213, 269, 301
- Redundancy, 12, 306, 345
- Reengineering, 106, 107, 158, 166, 167, 168, 207, 227, 240
- Reliability, 173, 194, 199, 281, 291, 366, 371, 410
- Report
 - audit, 92–96, 110, 134–144, 250, 283
 - exception, 61, 68, 132, 270
 - production, 10, 93, 95
- Reruns, 287
- Restricted Access, 68, 270
- Retention
 - customer, 160
 - for auditability, 369
 - record, 298, 366
 - risk, 353
 - staff, 214, 215, 239
- Revenues, 80, 167, 224, 343
- Review
 - management, 233
 - post-implementation, 69, 233, 242, 245, 270
 - security, 282
 - systems, 99, 202, 257
- Risk, 7
 - assessment, 26, 37, 51, 76, 83, 88, 192, 207, 249, 322, 341, 361, 362
 - factors, 75, 84, 86, 362
 - management, 27, 29, 32, 36
- Role
 - audit, 22, 28, 259, 261, 263
 - audit charter, 24
 - audit committee, 32
- Rotation of staff, 103
- RPG, 131
- Safeguarding of assets, 50, 60, 192
- Sampling, 273
 - attribute, 120

- error, 113
 - judgmental, 113
 - monetary unit, 117
 - risk, 114, 116, 129
 - statistical, 109, 111, 112
 - variable, 117, 120
- Sarbanes Oxley (SOX), 73, 74, 186, 187, 188, 192, 237, 282, 463
- Scanning, 67, 138, 269, 319, 332
- SCARE, 133, 283
- Schedule review, 233
- Scope
 - audit, 22, 43, 88–93, 111
 - and objectives, 138, 139, 150, 243
 - of computer security, 298
 - of work, 99
 - project, 150, 154
- Scorecard, Balanced, 147, 157, 159–163, 174, 200, 221
- Security
 - logical, 65, 99, 297, 301, 310, 336
 - physical, 65, 86, 285, 298, 301, 314, 330, 332, 336, 389
 - policy, 52, 53, 211, 308, 361, 388, 391
 - review, 282
- Segregation of duties, 51, 60, 62, 63, 77, 82, 86, 156, 211, 212, 285, 286, 287, 301, 313, 325, 389
- Simulation
 - Monte Carlo, 127
 - parallel, 133, 273
- Skills required, 129, 260
- Software
 - application, 190, 216, 251, 280, 288, 312
 - audit, 107, 130, 132, 225
 - customized audit, 128, 130
 - generalized audit, 119, 129, 133, 271, 273, 283, 313, 372
 - specialized audit, 225, 271, 313
 - systems, 64, 80, 100, 102, 253, 271, 340, 346, 394, 410
- Source-code review, 133, 272
- Spyware, 52, 391, 405
- Staff hiring policies, 233
- Statistics, 123, 286, 327
- Steganography, 307, 308
- Substantial testing, 77, 109, 115
- Supervision, 64, 71, 77, 105, 198, 209, 288, 403
- Surveillance, 400, 406
- Suspense accounts, 87
- Systems analysis, 102, 161, 207, 219, 215, 230, 248, 260
- Supply chain, 239, 240, 358
- Technical controls, 53, 353
- Tests
 - audit, 91, 94, 110, 130, 271
 - user acceptance, 244
- Timeliness, 21, 173, 175, 264, 303, 365, 366, 372
- Top Secret, 314, 317
- Transaction
 - authenticity, 11
 - authorization, 41, 61, 63, 82, 213, 301
 - control concerns, 299
 - control objectives, 67, 269
 - controls, 286
 - data analysis, 237
 - e-commerce, 357–371
 - effect of, 19
 - input, 9
 - fraudulent, 398
 - interception, 178
 - internet, 328
 - lost, 19
 - processing systems, 169, 218, 266
 - recovery 19–20
 - risks, 84–87
 - sampling, 112–114
 - test techniques, 128, 132, 237, 273, 283
- Transmission, 10, 11, 211, 357, 361, 368
- Uncertainty, 33, 75, 114, 115, 127, 149, 164, 168
- Under control, 62, 85
- Uninterruptible power, 335, 345, 400
- UNIX, 374–384
- User authentication, 63, 301, 302, 314, 318, 319322

- Utility programs, 19, 107, 225, 271, 314, 377
- Validity, 113, 263, 268, 365, 368, 404
- Value-added, 11, 167, 175, 220, 376
- Value chain, 220, 221
- Values, 50, 85, 117–124, 169, 183, 184, 195, 306
- VANs, 11
- Variable, 122, 123
 - cost, 292
 - dependent, 124
 - independent, 124
 - sampling, 117, 120
 - system, 266
- Verifying, 151, 401
- Virus, 52, 237, 300, 325, 351, 353, 360, 398
- Vital records retention, 298
- Web
 - based, 239, 321
 - site, 300, 401, 419
 - tools, 359, 380
- Windows, auditing, 385–392
- Wireless, 322, 353, 391, 406
- Working papers, 107, 225

