

Index

- A**
- ABC classification. *See* Pareto rule
 - ABCD classification of projects. *See* Value-focused project management
 - Activity-based costing (ABC), 241
 - Added-value. *See* Value to the customer
- B**
- Bad multitasking (BMT), 158,
179–182, 362
reduction, 182
See also Value-focused project management; Work in process (WIP)
 - Balderstone, S. J., 9, 72
 - Batches, 158
strategic importance of small, 175–178
transfer, 167–170
definition, 168
working, 86, 167–168, 171–178, 229
definition, 167
See also Production
 - Bid/no-bid process, 102, 244, 258, 349
 - Blackstone, J. H., 208
 - Blue Ocean strategy. *See* Strategy
 - BMT. *See* Bad multitasking (BMT)
 - Borovitz, I., 63
 - Bottlenecks (resource constraints), 24,
47–52, 69, 71–94, 96, 111–113,
137, 139, 222, 231
control test, 52
management, 158–159
permanent, 50–51, 69, 99, 102, 107, 113,
242, 305, 347–349, 349
conflict between two, 370
See also Research and development
(R&D) management
strategic issues of, 7
See also Management by constraints;
Non-critical resources Peak time
management;
 - Buffer. *See* Drum-Buffer-Rope
 - Buffer management. *See* Logistics
 - Burbridge, J. L., 183
- Buyers' market**, 6–7, 242
moving from sellers' market to, 3–4
- C**
- Capacity
excess, 222–223, 227–228
definition of, 223
nominal, 222
definition of, 222
protective, 222–224, 227–228
definition of, 222–223
 - Case studies
FAST methodology for a high-tech
company, 296–306
value focused management (VFM) of a
supermarket chain, 316–341
 - Cash flow, 149, 155, 191, 283, 346
discounted, 310
 - CCT. *See* Core competences tree
 - CDFs. *See* Strategy
 - CEOs' global perspective. *See* Global
system view
 - Change process, 430–432
 - Classification (Pareto focusing method),
31–35
 - Coman, A., 9, 151, 287
 - Common core products. *See* Mushroom effect
 - Complete kit concept, 18, 157–159, 185,
187–199, 351
definition of, 187
evils of working with incomplete kit,
190–191
implementation, 193–199
in health care 197
in human resources management,
197–198
in information systems, 198
in knowledge-based labor, 195–197
in production, 193–194
in purchasing, 198
in R&D, 194–195
in sales, 197
 - InKit, 189–190

- Complete kit concept (continued)
 definition of, 190
 OutKit, 189–190
 definition of, 190
See also Mandatory kit; Research and development (R&D) management
- Complexity, 9, 24, 40, 106, 176–177, 177, 369–370, 421–423
- Concurrent engineering, 158, 182
- Conflict resolution diagram (CRD), 129–135, 363–364
 breaking assumptions mechanism for, 129–135
 differentiation mechanism used for, 129, 131, 135, 363
 globalization of, 129, 131–132, 135, 363–364
 injection used in, 134–135
 presenting one alternative as irrelevant, 129, 135
 win-win, 129, 135
See also Managerial conflicts
- Conflicts. *See* Managerial conflicts
- Constraints, 46–69
 definition of, 46
 focusing on, 12–13, 422
 identifying the, 58–69
 management, *See* Management by constraint
 where should they be located? 11–113, 286, 295
See also specific constraints
- Contribution to profit. *See*, Throughput Control. *See* Managerial control
- Cooper, R., 241
- Copeland, T., 313
- Core competences, 249–250, 285, 289–295, 299–300, 303–304
- Core competence matrix, 249–250
- Core competences tree (CCT), 285, 299–300
 very desirable effects (VDEs), 289
 Leading VDE, 290
- Core problems, 115–116, 122–125, 285, 291–295, 302–304, 316, 320–321, 422. *See also* Focused current reality tree (fCRT)
- Cost
 per unit, 175, 177–178
 reduction, 98–99, 178, 370
 variable, 275
- Cost accounting
 Activity-based costing (ABC)
 assumptions underlying traditional, 234–236
 evils of traditional, 233–239
 “it costs me more”, 236
 “large batches”, 237
 “efficient production”, 237–238
 “saving”, 238
 loss of relevance of traditional, 55, 102–103, 208, 233–236, 252, 258
 separation principle, 234
 threshold for pricing, 256, 258
 throughput accounting, 241
See also CUT (cost-utilization) diagrams; Operating expenses
- Cost-Utilization (CUT) diagram, 63–69, 217–222, 245
 investment decisions using, 67–69
 routine use of, 69
See also Cost accounting; Operating expenses
- Cox, J., 12, 43–44, 49, 72, 137, 177, 203, 206, 220
- Cox, J. F., III, 208, 222
- CRD. *See* Conflict resolution diagram (CRD)
- Critical chain approach. *See* Value-focused project management
- Critical defense factors (CDFs). *See* Strategy
- Critical path approach. *See* Value-focused project management
- Critical success factors (CSFs). *See* Strategy
- Crosby, P.B., 262
- CRT (current reality tree). *See* Focused current reality tree (fCRT)
- CSFs. *See* Strategy
- Current reality tree (CRT). *See* Focused current reality tree (fCRT)
- “Curse of the blessing,” 94. *See also* Management by constraints
- Customers
 focus on MVCs (most valuable customers), 109–110, 113, 301
 satisfaction, 150, 153
- Customization. *See* Products
- CUT (cost-utilization) diagram. *See* Cost-Utilization (CUT) diagram

D

- Datar, S. M., 251
- DBR. *See* Drum-buffer-rope (DBR) mechanism,
- DCF. *See* Cash flow
- Decision-making
 CUT (cost-utilization) diagram used for, 67–69
 in excess capacity (market constraint) environment, 246–251
 Global decision-making methodology (GDM). *See* Global decision-making methodology (GDM)
 global performance measures to aid, 213–214

- marketing, costing and pricing
 - consideration in, 241–261
 - in resource-constrained environment, 242–246
 - tools, 244–258
 - and traditional cost accounting, 233–239
 - See also Make-or-buy
 - Deming, W. E., 11, 228, 268, 275
 - Dettmer, H. W., 115
 - Differentiation (Pareto focusing method), 31–35, 259, 429. See also Products
 - Discounted cash flow. See Cash flow
 - Doing more with the existing resources, 26, 74, 94, 96, 99, 277, 392
 - “Drawer effect”, 141
 - Drum-Buffer-Rope (DBR) mechanism, 85–90, 158–159, 179, 193, 227
 - buffer, 87–88, 222
 - drum, 86–87
 - examples, 88–90
 - rope, 88
 - See also Research and development (R&D) management
 - Due date performance, 150, 179, 191, 209–210, 212
 - as global performance measure, 46
 - Dummy constraints, 56–57, 69
 - breaking of, 83, 102–104
 - definition of, 56
 - See also Management by constraints
- E**
- Economic value-added (EVA). See Global performance measures
 - Economies-of-scale thinking, 175–177
 - Eden, Y., 152, 203, 241
 - Effectiveness, 76–83, 113
 - definition of, 72
 - marketing strategy, 97, 99–104
 - Efficiencies syndrome, 137–142, 153, 191–193
 - dealing with, 141–142
 - definition of, 137
 - “drawer effect” of, 141
 - “stretching time”, 141
 - Efficiency, 72–76, 113
 - definition of, 72
 - operational of sales and marketing, 97–99
 - 85–15 rule. See Quality management
 - Ein-Dor, P., 63
 - EVA (Economic value-added). See Global performance measures
 - Excess capacity, 96, 142, 239, 242, 246. See also Market constraint; Nominal capacity; Protective capacity
- F**
- FAST. See Strategy
 - fCRT. See Focused current reality tree (fCRT)
 - Finished goods inventory (FG)
 - buffer, 227
 - uniting warehouses, 22–230
 - See also Logistics
 - Flexibility to market and technology
 - changes, 149, 157
 - Fluctuations, 142, 207, 215–232
 - cumulative, 219–222
 - evolution of, 217–222
 - focused management approach to managing, 226–231
 - internal, 219–221
 - and peak times, 223
 - protecting against, 227–228
 - in R&D, 216–217
 - reducing, 228–231
 - sources of
 - availability, 216
 - capacity, 216
 - demand, 215–216
 - quality, 216
 - traditional approaches to managing, 224–226
 - Focused arena strategy. See Strategy
 - Focused current reality tree (fCRT), 115–125, 285, 290, 301, 320–321
 - advantages and disadvantages of, 123–124
 - construction, 116–123, 125
 - identifying core problems, 115–116, 122–125, (See also Core problems)
 - information sources for, 117
 - logical cause-effect relations of
 - undesirable effects, 118–121
 - orthogonal control, 122–124
 - core problems, 115–116, 122–125, (See also Core problems)
 - definition, 116
 - routine use of, 124
 - undesirable effects of (UDEs), 117–125, 289, 320–321
 - leading UDE, 116, 118, 124, 290
 - logical cause-effect relations of, 118–121
 - Focused management
 - elements of, 18–19
 - Focused management triangle, 20–26
 - simple tools used, 25
 - Focusing, 23–26, 99, 113, 185, 422–423
 - Pareto-based methodology, 31–35, 40
 - See also Classification; Differentiation; Resources allocation
 - See also Bottlenecks; Critical path; Critical chain; Pareto rule; Root problems; Strategic gating

- Focusing matrix, 35–37, 78–79, 99, 124, 290–291, 305–306, 316, 331
- Focusing table, 35–37, 78–79, 124, 290, 316
- Forecasting capability, 150–151
- Foster, G., 251
- Fox, R. E., 150, 168, 407, 415
- Frequency of transfers. *See* Batches
- G**
- Gap analysis diagram. *See* Strategy
- Garbage plants. 158, 179, 262–264, 424–426
definition of, 262
See also Garbage time; Research and development (R&D) management
- Garbage time, 74–76, 163, 397
classifying causes of, 75
definition of, 74–75
See also Garbage plants
- GDM. *See* Global decision making (GDM)
methodology
- Geri, N., 80, 153, 245
- Global decision making (GDM) methodology, 18, 82–83, 241, 244–258
CEO's perspective on, 82, 245, 247–248, 252–253, 254–255
change of local performance measures, 83, 245–246, 251, 253, 258
core competences matrix, 249–250
in excess capacity (market constraint) environment, 246–258
in resource-constrained environment, 245–246
strategic considerations in, 82–85, 245, 248–251, 253, 256
- Global market, 7–10
competition, 7–9, 96
new managerial approaches as remedy, 7–10
- Global performance measures, 45–46, 185, 201–214, 244, 289, 317
basis for organizational objectives, 46
characteristics, 203
and decision making, 201–202, 211–214
due date performance as, 209–210, 212
percentage, 209
value of backing orders, 209
dollar-days, 210
economic value-added (EVA) as, 45, 289, 297, 310–314, 317
gap, 356–358
implementation, 214
innovation as, 289, 297
inventory as, 207–208, 211
lead time as, 208, 211
lost sales, 212, 320
definition of, 212
measurements profile, 213, 244, 248, 252, 255
in not-for-profits organizations, 212–213
operating expenses as, 206–207, 211
definition of, 206
profit, 210–211
quality as, 208–209, 212
throughput as, 204–206, 211
definition of, 206
See also Throughput; Due date performance; Economic value added (EVA); Inventory; Lead time; Local performance measures; Lost sales; Operating expenses; Quality management; Progress of critical chain; Progress on critical path; Research and development (R&D) management
- Global system view, 20–23, 25, 139, 185, 353–358, 426
expanding scope of the system, 20–23
expanding the time frame, 20–23
- Globalization
buyers' market in context of, 4
“Go/no-go” process. *See* Bid/no-bid process
- Goal, 44–45, 287–288, 314, 316, 423–425
in not-for-profit organization, 44
- Goldratt, E. M., 12, 43–44, 49, 72, 106, 115, 128, 137, 150, 168, 177, 179, 203, 206, 220, 233, 275, 286–287, 359, 361, 364, 407, 415, 429
- Group technology, 158, 182–184
- H**
- Hillier, F. S., 146
- Horngren, C. T., 251, 313
- I**
- ILS. *See* Integrated logistic support
- Incomplete kit. *See* Complete kit
concept
- InKit. *See* Complete kit concept
- Integrated logistic support (ILS), 349. *See also* Logistics
- Integrated project team (IPT). *See* Value-focused project management
- Inventory, 207–208, 211
as global performance measurement, 46
types of, 143–147
viewed as an asset, 153
See also Finished goods inventory (FG); Raw material inventory (RM); Work in process (WIP)
- Investment decisions, 233, 243, 258
- IPT. *See* Value-focused project management

J

- JIT. *See* Just-in-Time (JIT) rules
- Johnson, H. T., 233
- Juran, J. M., 264
- Just-in-Spec. *See* Over-specification; Overdesign
- Just-in-Time (JIT) rules, 159–167
 - JIT Rule I, 160–167
 - definition of, 160
 - implementation for R&D. (*See also* Over-specification; Overdesign; Research and Development (R&D) management)
 - implementation for maintenance, 163–164
 - violations of, 164–167
 - 40-20-40 phenomenon created by, 166–167
 - JIT Rule II, 160, 167–168
 - applied to working (production) batches, 194
 - definition of, 160
 - for reducing response times/working with small batches, 167–168
 - JIT Rule III, 160, 178
 - to avoid wastes, 178
 - definition, 160
 - methods used to eliminate waste under, 178

K

- Kaplan, R. S., 233
- Karp, A., 177
- Kendall, E.I., 287
- Kim, W.C., 287
- Koller, G., 151, 313

L

- LCC (life-cycle cost). *See* Life cycle cost
- Lead Time, 143–155, 179, 190, 199, 208, 211, 231, 320
 - evils of long, 143–155
 - definition of, 147
 - as global performance measure, 46
 - quoted lead time, 209
 - reduction, 18, 98–99, 105, 155, 157–185, 187, 228–229, 370, 396
 - JIT Rules, 158–178
 - management of bottlenecks, 158–159
 - measurement and control, 158
 - methods listed, 158
 - strategic gating for, 158
 - tactical gating for, 158–159
 - relation between WIP level and, 146–147
 - strategic leverage of excellence in, 101, 105

- Time-to-Market (TTM), 19
 - reduction, 98
 - See also* Products; Services
- Lecher, T. L., 368
- Levy, N. S., 413
- Lieberman, G. J., 146
- Life-cycle cost, 21–22, 131–132, 346–347.
 - See also* Research and development (R&D) management
- Line balancing, 142, 224
- Livne, Z., 33
- Load analysis (capacity utilization), 60–63
 - effect of batch size on load of noncritical resources, 176–177
 - See also* Utilization
- Local optimization, 13, 353–358
- Local performance measures, 55, 83, 139, 206, 245–246, 251, 258
 - change of, 83
- Logistics, 395–417
 - buffer management, 407–417
 - and management of finished goods (FG), 411, 416
 - and management of raw materials (RM), 417
 - distribution, 395
 - elimination of lost sales, 396
 - finished goods (FG) inventory, 395–396, 400–404, 408
 - garbage plant, 397
 - global inventory management model, 399–400
 - global view, 398–399
 - in what form should inventories be kept?, 406–408
 - integrated logistic support (ILS), 395
 - lead time reduction, 396
 - purchasing, 395
 - raw materials (RM) inventory, 395–396, 403–406, 408
 - transportation and transfer, 395
 - uncertainty, 401–403
 - warehousing, 395
 - work in process (WIP) inventory, 400, 408

M

- Mabin, J. M., 9, 72
- Mafia offer. *See* Strategy
- Make-or-buy decisions, 68, 233, 243, 246–251, 258. *See also* Research and development (R&D) management
- Management by constraints, 43–69, 71–94, 185, 232
 - in a bottleneck environment, 71–94

- Management by constraints (continued)
 in a market constraint environment,
 95–114
 seven step process of, 43, 95
 step 1 determine the system's goal, 44–45
 step 2 establish global performance
 measures, 45–46
 step 3 identify the system constraint, 46–69
 step 4 decide how to exploit/utilize the
 constraint, 71–94, 96–104
 step 5 subordinate the system to the
 constraint, 83–90, 104–106
 step 6 elevate and break the constraint,
 90–92, 106–107
See also Offload mechanism
 step 7 if constraint is “broken” go back to
 step three - do not let inertia become
 the system constraint, 93–94, 108
 example, 93–94
 “curse of the blessing”, 94
- Managerial conflicts, 127–135, 363–364,
 370, 378–379, 421, 424–425
 definition of, 127
 examples of, 192, 196
 resolution, 127–135 (*See also* Conflict
 resolution diagram (CRD))
 differentiation mechanism used for,
 129, 131, 135
 globalization of, 129, 131–132, 135
 injection used in, 134–135
 presenting one alternative as
 irrelevant, 129, 135
 three step methodology, 129–135
 win-win solutions, 129, 135
 routine use of conflict resolution
 approach to, 134–135
- Managerial control, 149, 155, 201–214,
 202, 251, 296, 306, 431. *See also*
 Global performance measures;
 Quality management
- Managerial credo, 421–433
 all organizations are “sick”, 423–426
 global view, 426
 human resources, 427
 implementing focused management
 methods, 429
 managerial maturity, 426–427
 performance measures, 428
 on process of change, 430–432
 role of information systems in change
 process, 432
 satisficer principle, 427–428
 simple tools, 428–429
- Mandatory kit, 195, 351, 358
 definition of, 195
See also Complete kit concept; Research
 and development (R&D) management
- Market segmentation of and product
 differentiation, 106–107, 113, 244,
 256–258
- Market constraint, 52–53, 69, 94, 111–113
 definition of, 52
See also Management by constraints
- Marketing
 brand stretching, 107
 effectiveness of strategic, 97, 99–104
 segmentation. (*See also* Market)
See also Marketing and sales management
- Marketing and sales management, 109–110
 Most valuable customers (MVCs) as
 value driver, 109–110, 113, 301
- Measurement and control, 18, 158, 178–179
- Measurements profile, 213. *See also* Global
 performance measurements
- Mirabilis effect. *See* Strategic gating
- Modern business environment, 3–10
- Most valuable customers (MVCs). *See*
 Marketing and sales management
- Motivation, 150, 191
- Mouborgne, K., 287
- Murphy's Law, 215
- Murrin, J., 313
- Mushroom effect, 229–230
- MVCs. *See* Marketing and sales management
- N**
- New managerial approaches, 8–10
 implementation, 10
 input-output model of, 8–9
- Non-critical resources, 49, 83–85, 137,
 142, 231, 239
- O**
- Offload mechanism, 91–92
 Definition, 91
- Operating expenses, 148, 155, 190,
 206–207, 211, 243, 248
 as global performance measurement, 46
See also Accounting; Cost accounting;
 CUT (cost-utilization) diagrams
- Opportunities mapping matrix. *See* Strategy
- Optimization, 13–14
- Optimizers, 14–18
 analysis-paralysis syndrome, 14
 decision-making of satisficers versus, 14–18
 definition of, 14
- Organizational structure, 105–106
- OutKit. *See* Complete kit concept
- Overdesign, 162–164, 231, 370. *See also*
 Research and development (R&D)
 management
- Over-specification, 162–164, 231, 370.
See also Research and development
 (R&D) management

P

- Pareto diagram, 28–31, 788
 Pareto focusing matrix. *See* Focusing matrix
 Pareto focusing table. *See* Focusing table
 Pareto rule, 23, 27–36, 40, 422
 ABC classification expansion of the, 28
 focusing method application of, 27–35, 31–35
 use, misuse, and abuse of the, 38–39
 See also Focusing methodology
 Pareto, V., 27
 Parkinson's law. *See* Value-focused project management
 Pass, S., 50, 95, 158, 432
 Peak-time management, 51–52, 69, 109–111, 223, 242
 Performance measures. *See* Global performance measures; Local performance measures
 Permanent bottlenecks. *See* Bottlenecks
 Perspective of the CEO. *See* Global system view
 Policy constraints (or policy failure), 54–56, 69
 breaking of, 83, 102–104
 definition of, 54
 examples of, 55
 See also Management by constraints
 Pricing, 18, 243. *See also* Cost accounting
 Problems
 classifying by contribution to organization, 23–25
 core (*See* Core problems)
 Process control. *See* Quality management
 Process flow diagram, 58–59
 Product mix problem, 100–101, 233, 242, 251–258
 Products
 customization, 104–105
 differentiation, 106–107, 113, 244, 256–258 (*See also* Market)
 dimensions of, 257–258
 See also Product mix problem; Quality management; Response times; Services; Work in process (WIP)
 Profit calculation, 210
 Project management. *See* Value-focused project management

Q

- Quality management, 148, 153, 158, 172, 179, 187, 190, 199, 208–209, 212, 231, 261–277
 centrality of the customer and, 273
 comes second, 232
 continuous improvement, 268–269
 customer approach to, 261, 264
 customer satisfaction, 209

- economic approach to, 261–264
 85/15 rule, 269–270, 428
 definition of, 269
 excellence as strategic leverage, 101
 as global performance measure, 46
 implementing, 273–275
 improvement, 19, 98, 179
 myths about, 276
 non-conformance. *See* Garbage plants
 operational approach to, 261–262
 prevention, 270
 process control, 231–232, 265–267
 returns, 209
 rework, 191
 right first time, 208, 262–264
 definition of, 264
 stage a—organization has no quality management/feedback, 267
 stage b—inspection, 267–268
 stage c—process control, 268–273
 strategic leverage of excellence in, 97, 101–102, 275
 suppliers, 273
 teamwork, 272
 ten-time rule, 271–272, 351, 427
 throughput world and cost world
 objectives of, 275
 uniformity approach to, 261, 264–267
 See also Control; Garbage plants; Products; Services; Variability
 Quoted lead time. *See* Lead time

R

- Raw materials inventory (RM), 143
 buffer, 227
 definition of, 143
 See also Logistics
 Requests for proposals (RFPs), 349
 Research and development (R&D)
 management, 369–393
 ABCD classification of projects, 194–195
 project classification table, 373–374
 effect on management requirements, 371–378
 projects portfolio, 377
 bad multitasking (BMT), 385
 business structure, 370, 388–391
 conflict, 389–391
 matrix structure, 388–391
 project structure, 388–391
 business thinking, 370–371, 382
 complete kit, 370, 377–378, 383
 complexity of, 369–370
 cost vs. time project manager, 375
 drum-buffer-rope, 385
 40-20-40 phenomenon, 379
 garbage plant, 370, 391–392

- R&D management (continued)
 definition for research and development, 391
 generic vs. specific development conflict, 378–379
 life cycle cost, 382
 make-or-buy decisions, 370, 392
 mandatory kit, 370, 377–378, 383
 performance measurement, 370, 375, 386–388
 progress along critical chain or critical path, 388
 over-specification, 370, 379–383
 solutions to, 382–383
 sources of, 380–381
 overdesign, 370, 379–383
 personal conflict of the developer, 381
 solutions to, 382–383
 sources of, 381–382
 size of tasks and work packages, 386
 strategic gating, 370, 384–385
 tactical gating, 370, 385–386
 subordination to the market, 370–371
 uncertainty, 369–393
 viewing development as a process, 370, 383
- Resource allocation (Pareto focusing method), 31–35
- Resource constraints. *See* Bottlenecks
- Response time. *See* Lead time
- Return on assets (ROA), 312
- Rewarding, 13–14, 202
 non-effective, 13–14, 55, 103–104
- Rework. *See* Quality management
- RFPs. *See* Requests for proposals
- ROA. *See* Return on assets
- Ronen, B., 43, 50–51, 63, 80, 95, 109, 151–153, 158, 177, 187, 203, 241, 245, 287, 368, 407, 432
- S**
- Sales channels, 107
- Satisficers, 14–18, 26, 203, 212, 352, 427–428
 decision-making of optimizer versus, 14–18
 definition of, 15
See also Optimizers
- Schonberger, R. J., 262
- Schragenheim, E., 86, 407
- Seasonality. *See* Peak-time management
- Segmentation. *See* Market
- Sellers' market, 371
 moving to buyers' market from, 3–4
- Setup, 167, 171, 175–176
- Shareholders' value. *See* Value
- Shenhar, A. J., 371
- Shiely, J. S., 312
- Shingo, S., 175
- Simon, H. A., 14–15, 427
- Specific contribution, 79–81, 99–101, 245, 349
 calculating, 80
 definition of, 79
 examples of, 80–81
 Pareto diagram of, 80
- Spector, Y., 63
- Spencer, M. S., 208, 222
- Standardization of components and raw materials, 229
- Starr, M., 43
- Stern, J. M., 312
- Stewart, G. B., III, 311
- Stohr, E., 368
- Strategic focus. *See* Strategy
- Strategic gating, 78–83, 86, 99–104, 158, 348–349
 mirabilis effect and, 81–82
 of projects, 244
 reducing response times/WIP by, 157–158
See also Research and development (R&D) management
- Strategy
 Blue Ocean, 287
 conservation, 282, 286, 290, 300–301
 critical defense factors (CDFs), 293–295, 304
 critical success factors (CSFs), 291–295, 302–304
 defense, 282, 285–286, 291, 295, 302, 305
 definition of, 281
 focused, 19, 107, 281–306
 focused arena strategy (FAST), 282, 287–306
 case study of high-tech company, 296–306
 step 1—goal, vision and mission, 287–289, 297
 step 2—define performance measures, 289, 297
 step 3—SWOT analysis, 289–290, 298–299
 step 4—identify core competences with core competences tree (CCT), 289–290, 299–301
 step 5—identify core problems with focused current reality tree (CRT), 290, 301
 step 6—focus on the main opportunities and threats, 290–291, 302–303
 step 7—perform a gap analysis, 291–295, 304
 step 8—decide where the constraint should be located, 295, 305 (*See also* Constraints)

- step 9—determine what actions to take execute and control, 296, 305
 - gap analysis diagram, 291–295, 303–304
 - mafia offer, 282, 286–287, 306
 - opportunities mapping matrix, 292–293
 - process, 287
 - realization of opportunities, 291–293
 - realization of threats, 293–295
 - strike, 282, 286, 291,
 - SWOT analysis, 282, 284–285, 289–290, 298–299, 303
 - threats mapping matrix, 294–295
 - viable vision, 282, 286–287, 306
 - where should the constraint be located? (See Constraints)
 - Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis.
 - See Strategy
 - Student's syndrome. See Value-focused project management
 - Sub-optimization, 353–358
 - definition, 13
 - Subordination, 85–90
 - of technology to market needs, 106, 370–371
 - See also Drum-buffer-rope mechanism; Tactical gating
 - SWOT analysis. See Strategy
 - System constraints. See constraints
 - System optimization. See optimization
 - Systems, 11–26
 - “classic” model of organizational, 12
 - global system view (See Global view)
 - “modern” view of organizational, 12
 - See also Organizations
 - System suboptimization. See suboptimization
- T**
- Tactical gating, 85–86, 158–159
 - gater, 159, 193
 - reducing response time/WIP by, 157–159
 - See also Research and development (R&D) management
 - Taguchi, G., 264
 - Threats mapping matrix. See Strategy
 - Ten-times rule. See Quality management
 - Throughput, 19, 148, 151, 153, 157, 187, 190, 199, 204–206, 211, 231, 243, 248, 275
 - accounting, 241
 - as global performance measure, 46
 - Time analysis of a process, 59–60
 - Time to market. See Lead time
 - Traditional cost accounting. See Cost accounting
 - Transfer batches. See batches
 - Transfer prices, 18, 258
 - Trietsch, D., 413
 - TTM (time to market). See Lead time
- U**
- UDEs. See Focused current reality tree
 - Uncertainty, 157, 193, 215–232, 421–423, 425
 - in project management, 194–195
 - See also Value-focused project management
 - Undesirable effects (UDEs). See Focused current reality tree
 - Utilization
 - average resource, 137–141, 224
 - increasing constraint, 72–76
 - See also Garbage time
- V**
- Value to the customer, 106–107, 109
 - Value of the organization, 10, 19, 45, 99, 106–107, 113, 165, 277, 282–283, 283, 289–291, 356, 398–399
 - assessing firm, 310–311
 - market value, 309
 - actual transactions, 309
 - asset value, 309
 - discounted cash flow, 310
 - management challenge of creating (See Value creation)
 - See also Organizations; Value drivers; Value-focused management (VFM) model
 - Value creation, 18–19, 307–341, 429
 - Calculating the potential, 328–341
 - enhancement, 18–19
 - definition of, 8
 - teams for, 431
 - from financial activities, 308
 - from managerial activities, 307–341
 - management responsibility, 307–308, 331
 - value-focused management (VFM) model, 19, 309, 313–341
 - case study of a supermarket chain, 316–341
 - step 1—determine the goal, 314, 316
 - step 2—determine the performance measures, 314–316
 - step 3—identify value drives, 314–331 (See also Value drivers)
 - step 4—decide how to improve the value drivers, 316, 329
 - step 5—implement and control, 316, 329–331
 - Value drivers, 18–19, 321–328
 - critical chain method, 359–368
 - definition of, 19
 - focused strategy, 281–306

- Value drivers (continued)
 - focused logistics, 395–417
 - forward-looking execution, measurement and control, 348, 358–359
 - identification, 314–331
 - balance sheet and profit and loss statements approach, 314, 317
 - core problems approach, 316, 320–321
 - functional review approach, 315, 317–320
 - global performance measures approach, 315, 320
 - implementation of the critical chain method, 347–348
 - methodological project planning, 348, 351–353
 - most valuable customers (MVCs), 109–110, 113, 306
 - project manager as a business manager, 348, 353–356
 - shortening lead times, 157–185
 - strategic gating and project initiation, 348–349
 - value-focused project management, 347–368
 - See also* Value-focused management (VFM) model
- Value-focused project management
 - ABCD classification of projects. *See* Research and Development (R&D) management
 - Bad multitasking (BMT), 362
 - See also* Research and development (R&D) management
 - Bottleneck resources, 353
 - definition of, 345
 - constraints
 - budget, 345, 352, 355
 - due-date, 345, 353, 355
 - scope (or performance), 345, 353, 355
 - and sub-optimization and local optimization, 353–355
 - critical chain method, 347–348, 359–368, 422
 - definition of, 364
 - implementation, 368
 - net durations, 360–368
 - Parkinson's law, 359, 361
 - project buffer, 230–231, 364–368
 - realistic durations, 360–368
 - resolving the duration estimate conflict, 363–364
 - student's syndrome, 359, 362
 - critical path method, 359, 422
 - forward looking performance measures, progress along the critical path or critical chain, 359
 - time to complete, 359
 - integrated project team (IPT), 346, 352
 - life cycle
 - completion and debriefing, 348
 - execution, monitoring and control, 348, 358–359
 - initiation and specification, 348, 350–352
 - project planning, 348, 351–353
 - use of project products and/or customer support, 348
 - strategic gating, 348–349
 - methodological planning, 347
 - over-specification, 353
 - overdesign, 353
 - project management, 346–368
 - definition of, 346
 - project manager as a business manager, 353–358
 - global system view, 353, 355–356
 - performance measurement gap, 356–358
 - risk management, 347, 351, 368
 - satisficer's approach, 352
 - uncertainty in, 194–195, 345–347, 351–352, 359–368
 - See also* Mandatory kit
- value inhibitors, 346–368
- value-focused management (VFM) model. *See* Value creation
- VDEs. *See* Core competences tree
- Very desirable effects (VDEs). *See* Core competences tree
- VFM. *See* Value creation
- Viable vision. *See* Strategy

W

- WIP. *See* Work in process (WIP)
- Work in process (WIP), 143–155, 227–228, 231
 - as a burden, 185
 - causes of excess, 153
 - definition of, 144
 - evils of, 147–153
 - definition of, 147
 - examples of, 144
 - reducing, 155, 157–185
 - relation between response time and level of, 146–147
 - See also* Inventories; Products; Services; Tasks
- Working batches. *See* Batches
- Working with complete kit. *See* Complete kits
- Working (production) batches. *See* Batches