3D Printing	44
Added Customer Value	28
Additive Model	53
Adversarial relationship	163
After-sales phase	310, 315, 317
Arm's length relationship	163
Arrival pattern	285
Artificial Intelligence, AI	44
Automated Guided Vehicles, AGV	44
Backlogging	76, 124, 139, 160
Balking	288
Batch Production	
Bill of Lading	34 213
Bill of Materials, BOM	213 115, 126, 136
Binary Regression	58, 61, 66
Blockchain Technology	44, 306, 311
	44, 300, 311 176, 266, 267
Booking system Bottleneck purchases	162
-	-
Bottleneck Supply Chain	96, 162, 281, 284
Bullwhip Effect	40,69
Bypasses in networks	227
Calling population	302
Carrying Capacity	325
Certificate of Origin	213
Collaborative Forecasting	67, 70, 153
Commodity swaps	279
Community Relations	309
Complementary assets	200
	45, 77, 143, 183, 190, 196, 199, 200, 202,
Congestion	215, 219, 221, 234, 240, 253, 258, 283,
Consumer education	320, 329
Consumerism	319
Containerization	230
Continuous Inventory Review	148
Corporate Social Responsibility, CSR	26, 28, 307
Cost of Capital Inventory	123
Cross-docking	182, 186, 196, 250
Customer Relationship Management, CRM	35
Customer Response Time	40, 41, 93
Cycle Inventory	116, 121, 126, 140, 148, 157
Cycle Service Level, CSL	140, 144, 147, 150, 155, 160, 330
Data centers	217
Decision Support Systems, DSS	32, 74
Decision Tree	78

Demand Management	27, 261
Deseasonalized Data	53, 55
Dijkstra's algorithm	241
Distributed Ledger, Blockchain	312
Downstream activities	30, 39, 292
Dynamic pricing	262
Economic Order Quantity, EOQ	125, 128, 130
Excludability	207
Experts Opinion	48
Exponential Distribution	43 137, 292, 299, 304
External logistics	182
Externalities	222, 225, 228, 314
Fill Rate	140
Finished Goods Inventory	120
Food Loss	328
Food Processing Industry	323, 324
Food waste	328 328
Foreign Investment	26
Forward Buying	40, 48, 76, 111
Forward Contracts	278
Freight Exchange Platforms	252
Full Truck Load, FTL	253
Geographic Information System, GIS	92
Geographical Location Decisions	92 76
Glass fibre network	217
Global Compact	307
Global Positioning System	220
Graph theory	238
Gravity Models	88
Hedging Instruments	
Holding cost	75, 279 123, 127, 130, 133, 140, 148
Holt-Winters Exponential Smoothing	61
Ice roads	198
Incoterms	213
Information content	208, 215
Information transmission	179, 208, 215
Information transparancy	26
Infrastructure systems	182, 203, 221
Intangible Resources	
Intellectual property	30
Interarrival time	211
Intermodal transportation	285
	186, 230,
Intermodality	229, 234, 292 189
Internal logistics	182
Internal Supply Chain Management, ISCM	35

Internet of Things	43, 220, 312
Jackson network	292, 301
Job Production	34
Jockeying	288
Jumping the queue	289
Just-in-Time Management	115
Kendall notation	299
Last-Mile-Delivery	133, 230, 246
Lean Production	115, 149
Less Than Truckload, LTL	253
Leverage purchases	163
Linear Programming	32, 81, 88, 98
Logistics equation	325
Maintenance, Repair and Operating Supplies,	
MRO	121
Management of Bioresources	330
Markovian process	299
Mass Customization	34, 76, 318
Mass Production	34, 77, 316, 319
Materials Requirement Planning, MRP	114
Maximum Flow	248
Maximum Sustainable Yield, MSY	325
Mean Absolute Deviation, MAD	57, 136
Mean Absolute Percentage Error, MAPE	58
Mean Squared Error, MSE	57, 136
Merge-in-Transit	230
Micro- and Macro-networks	228
Milk run	250
Minimum Cost Flow	249
Minimum Spanning Tree	248
Mixed Model	53, 56, 62
Money Flow	31, 38
Multi-echelon Inventory Optimization, MEIO	154
Multiplicative Model	53
Multiproduct Single Order	133
Negotiation	165
Network of GSM	219
Non-critical purchases	163
(Non)-renewable natural resources	321
Normal Capacity	73
Normal Distribution	138, 143, 148, 151, 159, 172, 267, 271
"not-at-home" problem	258
Occupany rate infrastructure	224
Oniomania	320
Online reverse bidding	165

Operational Pail Control Contera	189
Operational Rail Control Centers Option contracts	
Order Flow	278 38
Ordering Cost	-
Outsourcing	125, 128, 132
0	75, 95, 166
Overbooking	176, 261, 266
Overstocking	136, 156, 167, 176, 267, 330
Packaging	36, 180, 213, 251, 253, 310, 312, 317
Pairwise correlation	145
Pattern Recognition	49
Periodic Inventory Review	149
Pickup points (delivery points)	238, 258
Point-of-Sale, POS	33, 68, 147, 181
Poisson Distribution	137, 285, 292, 300, 302, 304
Population Dynamics	325
Post-consumer phase	312, 315, 317
Postponement	149, 175
Practical Capacity	73, 76
Predator-prey interaction models	328
Pre-emptive priority rights	287
Price volatility Mitigation Strategy	278
Prisoners' dilemma Supply Chain	204
Procurement	21, 27, 47, 123, 136, 161, 164, 178,330
Product Review	213, 320
Product Review	
Product Review Production Process	
	213, 320
Production Process	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322
Production Process ProForma Invoice	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212
Production Process ProForma Invoice Public Procurement	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162
Production Process ProForma Invoice Public Procurement Purchase requisition	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing networks	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing networks Rational Consumer Theory	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging Reorder Point, ROP	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288 128, 136, 139, 143, 148, 150
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging Reorder Point, ROP Repurchase contract	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288 128, 136, 139, 143, 148, 150 167
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging Reorder Point, ROP Repurchase contract Return arrangement	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288 128, 136, 139, 143, 148, 150 167 167
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging Reneging Reorder Point, ROP Repurchase contract Return arrangement Revenue sharing arrangement	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288 128, 136, 139, 143, 148, 150 167 167
Production Process ProForma Invoice Public Procurement Purchase requisition Pure Public Goods, properties QR-codes Quantity Flexibility Contract Queue Discipline Queue performance indicators Queueing Behaviour Queueing Behaviour Queueing networks Rational Consumer Theory Regression Analysis Forecasting Reneging Reorder Point, ROP Repurchase contract Return arrangement	213, 320 33, 116, 120, 126, 149, 231, 291, 310, 322 212 27, 162 162 209, 225 214 172, 176, 265 286 299 288, 292 301 255 67 288 128, 136, 139, 143, 148, 150 167 167

RFID tags	214
Risk Propogation	285
Rivalry	207
Safety Inventory	110, 116, 121, 136, 139, 143, 148, 292
Scenario Approach	48
Shortest Path algorithm	241
Simplex method LP	87
Social costs	224
Spatial mismatch	283
Steady state queueing system	298
Stock Keeping Unit, SKU	33
Stock-out costs	123, 139, 160, 169
Strategic Fit	28
Strategic purchases	162
Structural Components Forecasting	52
Subcontracting	105, 110
Substitute Approach	47
Supplier Relationship Management, SRM	35, 166
Supply Chain Management (definition)	27
	31, 32, 140, 141, 155, 239, 299, 302, 304,
Supply Chain, metrics	311, 329
Sustainability	305,311, 317, 321, 328
Tangible Assets	29, 30, 46, 73, 74, 207, 211, 299
Telerobotics	43
Theoretical Capacity	73, 76, 267
Third Party Logistics, 3PL	253
Time Series Decomposition	56
Total Cost of Ownership, TOC	166
Track-and-trace information	214
Tragedy of the Commons	322, 331
Transactional relationship	163
Trans-Eurasian Railway	189
Transient state queueing system	298
Transshipment nodes	239, 243
Travelling Salesman problem	247
Understocking	136, 156, 160, 167, 176, 329
Unmanned Aerial Vehicles, drones	44, 204, 205, 233
Upstream activities	30
Vertical Price Agreements	273
Waste disposal	314, 315, 316
Work-in-Process Inventory	120