

## SUBJECT INDEX

Alternate Trunk Group		Editor	18
Routing	328	Electronic Mail	168
Application Program	16	Empirical Distribution	
Arithmetic Logic Unit	30,43	Function	97,106
Arrival Statistics	424	Engset Blocking	355
Finite Source	284,425,452	Equivalent Random Method	328
General	429	Erlang:	150
Infinite Source	428	Blocking Function	272
Automatic Call Distributor	275,386	Delay Function	271
		Distribution	107,433
Bit Stuffing	463	Execution Time	15
Blocking	329	Exponential Distribution	432
Earliest Arrival Cleared	505		
Latest Arrival Cleared	505	Finite Source:	426
Bottleneck	160,180,225,352	Order of Arrival	452
Broadcast Bus	537	Flag	461
		Floating Point Accelerator	44
CP/G/1 Queue:	473	Flow Control:	311,521
Arrival Statistics	481	Delay Analysis	521
Downward Migration	477	Mean Throughput Rate	435
General	478	Simulation	119
Interrupt Driven	478	Flow Time	8,45
Nonpreemptive	476	Fragmentation:	
Cache Memory	393	External	353
Carrier Sense Multiple Access		Internal	353
Collision Detection	555		
Slot Time	556	Gamma Distribution	107
Circuit Switch:	324,336,350,506		
Variable Bandwidth	354,506	Hayward's Approximation	329
Concurrency	15	Hierarchical Analysis	390
Copier	211	Histogram	106
Cost Function	501	Hyperexponential Distribution	435
Critical Exponent	515	Hypoexponential Distribution	436
Critical Path Scheduling	62		
		Infinite Source Statistics	428
Deadline Scheduling	67	Intervisit	457
Decision Tree Access	571		
Degree of Multiprogramming	291	Jackson Network	253
Digital Circuit Switch	352,506	Johnson's Rule	74
Distribution Function	106		
		Kendall's Notation	444

- Laplace Transform: 440
  - Approximate Inverse 440
- Lateness 8
- Layers 15
- Length Biasing 459
- Likelihood 6
- Little's Law 140
- Local Area Network 21,220,532
  - Bus Access 536
  - Ring Access 578
  - Topology 534
- M/G/1 Queue:
  - First In First Out 447
  - Last In First Out 453
  - Optimum Scheduling 500
  - Processor Sharing 494
  - Shortest Processing Time 497
  - Shortest Remaining Processing Time 497
  - With Intervisits 456
- Machine Code 18
- Makespan 45
- Mean 94
- Median 97
- Memory Interference 391
- Minimum Flow Time Scheduling 148
- Model: 94,103,105
  - Error Measures 111
  - Office 233
  - Queucing Network 5,162
- Modem 271
- Monitors:
  - Hardware 111
  - Software 112
- Multics 143
- Multiple Drop Line 550
- Network:
  - Data 330
  - Jackson 253
  - Local Area 20,221
  - Packet Switching 324
  - Queueing 5,162
- Voice 327
- Nonpreemptive Scheduling 56,477
- Operating System 16,395
- Order Statistics 106
- OSI Architecture 23
  - Hardware 24,532
  - Frame 24,461
  - Link 24,435
  - Transport 24,330
  - Session 24
  - Presentation 24
  - Application 24
- Overload: 502
  - Control 502
  - External 502
  - Internal 502
- Packet Switch 82,154,324,374,492
- Paging 396
- Parallelism 15,43,81
- Parser 18,19
- Partial Order 57
- Partition Function: 262
  - Recursion 265
- Percentile 96
- Performance Measure: 7
  - User 7,8
  - System 7,9
- Pipeline 43,71,75,286
- Poisson Process 429
- Policy 6
- Polling 547-555
- Polynomial Evaluation 60
- Pooling 280
- Precedence 79
- Preemptive Scheduling 56,477
- Printer 44,100
- Private Branch Exchange (PBX) 368
- Productivity 1
- Program Counter 30
- Q-Q (Quantile) Plot 08
- Quantum Round Robin

Scheduling	20	Stationarity	118
Queueing Network	5	Statistics:	94
Queueing Time	8	Distributions	94,96
Random Scheduling	496	First Order	94,95
Ready Time	8	Order	97
Registers	30	Robust	98
Reservation Access	572	Second Order	94,95
Resource:	4	Trimmed Mean	98
Serially Reusable	5,150	Stretching Factor	13,263,285
Shared Concurrently	5,150	Switch	27,30
Consumable	6	Synchronous Data Link Control	461
Response Time	3	Tardiness	8
Round Robin Scheduling	20	Telephone Tag	206
Scheduling		Telephone Traffic	149
Balanced	283	Think Time	3
Controlled Preemption	476	Time Slot Interchanger	350
Deadline	67	Throughput	9
Dynamic Priority	67	Token Bus	538
Downward Migration	477	Token Ring	578
General	478	Transaction Processing	173,398
Geometry	53	UNIX	29
Interrupt Driven	478	Utilization	9
Minimum Flow Time	148	Variable Bandwidth	
Nonpreemptive	56,439,476	Circuit Switching	354,359,506
Preemptive Repeat	439	Virtual Processor	27,28
Preemptive Resume	56,439	Voice/Data:	
Processor Sharing	284,494	Link Multiplexing	506,557
Quantum	20	Storage	168
Random	496	Waiting Time	8
Round Robin	20	Word Processor	215,228
Static Priority	473	Work Station	223
Semaphor	176		
Service Time Distribution:	431		
Constant	432		
Erlang	432		
Exponential	431		
Hyperexponential	433		
Hypoexponential	434		
Simulation	114		
Squared Coefficient of Variation	96		
Speedup	55,158		
State	5,28		