

- [Kahn 1978] R. E. Kahn, S. Gronemeyer, J. Burchfiel, R. Kunzelman, "Advances in Packet Radio Technology," *Proc. 1978 IEEE INFOCOM*, 66, 11 (Nov. 1978).
- [Kamerman 1997] A. Kamerman, L. Monteban, "WaveLAN-II: A High-Performance Wireless LAN for the Unlicensed Band," *Bell Labs Technical Journal* (Summer 1997), pp. 118–133.
- [Kar 2000] K. Kar, M. Kodialam, T. V. Lakshman, "Minimum Interference Routing of Bandwidth Guaranteed Tunnels with MPLS Traffic Engineering Applications," *IEEE J. Selected Areas in Communications* (Dec. 2000).
- [Karn 1987] P. Karn, C. Partridge, "Improving Round-Trip Time Estimates in Reliable Transport Protocols," *Proc. 1987 ACM SIGCOMM*.
- [Karol 1987] M. Karol, M. Hluchyj, A. Morgan, "Input Versus Output Queuing on a Space-Division Packet Switch," *IEEE Transactions on Communications*, Vol. 35, No. 12 (Dec. 1987), pp. 1347–1356.
- [Kaufman 1995] C. Kaufman, R. Perlman, M. Speciner, *Network Security, Private Communication in a Public World*, Prentice Hall, Englewood Cliffs, NJ, 1995.
- [Kelly 1998] F. P. Kelly, A. Maulloo, D. Tan, "Rate Control for Communication Networks: Shadow Prices, Proportional Fairness and Stability," *J. Operations Res. Soc.*, Vol. 49, No. 3 (Mar. 1998), pp. 237–252.
- [Kelly 2003] T. Kelly, "Scalable TCP: Improving Performance in High Speed Wide Area Networks," *ACM SIGCOMM Computer Communications Review*, Volume 33, No. 2 (Apr. 2003), pp 83–91.
- [Kilikki 1999] K. Kilikki, *Differentiated Services for the Internet*, Macmillan Technical Publishing, Indianapolis, IN, 1999.
- [Kim 2005] H. Kim, S. Rixner, V. Pai, "Network Interface Data Caching," *IEEE Transactions on Computers*, Vol. 54, No. 11 (Nov. 2005), pp. 1394–1408.
- [Kim 2008] C. Kim, M. Caesar, J. Rexford, "Floodless in SEATTLE: A Scalable Ethernet Architecture for Large Enterprises," *Proc. 2008 ACM SIGCOMM* (Seattle, WA, Aug. 2008).
- [Kleinrock 1961] L. Kleinrock, "Information Flow in Large Communication Networks," RLE Quarterly Progress Report, July 1961.
- [Kleinrock 1964] L. Kleinrock, *1964 Communication Nets: Stochastic Message Flow and Delay*, McGraw-Hill, New York, NY, 1964.
- [Kleinrock 1975] L. Kleinrock, *Queuing Systems, Vol. 1*, John Wiley, New York, 1975.
- [Kleinrock 1975b] L. Kleinrock, F. A. Tobagi, "Packet Switching in Radio Channels: Part I—Carrier Sense Multiple-Access Modes and Their Throughput-Delay Characteristics," *IEEE Transactions on Communications*, Vol. 23, No. 12 (Dec. 1975), pp. 1400–1416.
- [Kleinrock 1976] L. Kleinrock, *Queuing Systems, Vol. 2*, John Wiley, New York, 1976.
- [Kleinrock 2004] L. Kleinrock, "The Birth of the Internet," <http://www.lk.cs.ucla.edu/LK/Inet/birth.html>
- [Kohler 2006] E. Kohler, M. Handley, S. Floyd, "DDCP: Designing DCCP: Congestion Control Without Reliability," *Proc. 2006 ACM SIGCOMM* (Pisa, Italy, Sept. 2006).

- [Kolding 2003] T. Kolding, K. Pedersen, J. Wigard, F. Frederiksen, P. Mogensen, "High Speed Downlink Packet Access: WCDMA Evolution," *IEEE Vehicular Technology Society News* (Feb. 2003), pp. 4–10.
- [Koponen 2010] T. Koponen, M. Casado, N. Gude, J. Stribling, L. Poutievski, M. Zhu, R. Ramanathan, Y. Iwata, H. Inoue, T. Hama, S. Shenker, "Onix: A Distributed Control Platform for Large-Scale Production Networks," *9th USENIX conference on Operating systems design and implementation (OSDI'10)*, pp. 1–6.
- [Koponen 2011] T. Koponen, S. Shenker, H. Balakrishnan, N. Feamster, I. Ganichev, A. Ghodsi, P. B. Godfrey, N. McKeown, G. Parulkar, B. Raghavan, J. Rexford, S. Arianfar, D. Kuptsov, "Architecting for Innovation," *ACM Computer Communications Review*, 2011.
- [Korhonen 2003] J. Korhonen, *Introduction to 3G Mobile Communications*, 2nd ed., Artech House, 2003.
- [Koziol 2003] J. Koziol, *Intrusion Detection with Snort*, Sams Publishing, 2003.
- [Kreutz 2015] D. Kreutz, F.M.V. Ramos, P. Esteves Verissimo, C. Rothenberg, S. Azodolmolky, S. Uhlig, "Software-Defined Networking: A Comprehensive Survey," *Proceedings of the IEEE*, Vol. 103, No. 1 (Jan. 2015), pp. 14–76. This paper is also being updated at <https://github.com/SDN-Survey/latex/wiki>
- [Krishnamurthy 2001] B. Krishnamurthy, J. Rexford, *Web Protocols and Practice: HTTP/1.1, Networking Protocols, and Traffic Measurement*, Addison-Wesley, Boston, MA, 2001.
- [Kulkarni 2005] S. Kulkarni, C. Rosenberg, "Opportunistic Scheduling: Generalizations to Include Multiple Constraints, Multiple Interfaces, and Short Term Fairness," *Wireless Networks*, 11 (2005), 557–569.
- [Kumar 2006] R. Kumar, K.W. Ross, "Optimal Peer-Assisted File Distribution: Single and Multi-Class Problems," *IEEE Workshop on Hot Topics in Web Systems and Technologies* (Boston, MA, 2006).
- [Labovitz 1997] C. Labovitz, G. R. Malan, F. Jahanian, "Internet Routing Instability," *Proc. 1997 ACM SIGCOMM* (Cannes, France, Sept. 1997), pp. 115–126.
- [Labovitz 2010] C. Labovitz, S. Iekel-Johnson, D. McPherson, J. Oberheide, F. Jahanian, "Internet Inter-Domain Traffic," *Proc. 2010 ACM SIGCOMM*.
- [Labrador 1999] M. Labrador, S. Banerjee, "Packet Dropping Policies for ATM and IP Networks," *IEEE Communications Surveys*, Vol. 2, No. 3 (Third Quarter 1999), pp. 2–14.
- [Lacage 2004] M. Lacage, M.H. Manshaei, T. Turletti, "IEEE 802.11 Rate Adaptation: A Practical Approach," *ACM Int. Symposium on Modeling, Analysis, and Simulation of Wireless and Mobile Systems (MSWiM)* (Venice, Italy, Oct. 2004).
- [Lakhina 2004] A. Lakhina, M. Crovella, C. Diot, "Diagnosing Network-Wide Traffic Anomalies," *Proc. 2004 ACM SIGCOMM*.
- [Lakhina 2005] A. Lakhina, M. Crovella, C. Diot, "Mining Anomalies Using Traffic Feature Distributions," *Proc. 2005 ACM SIGCOMM*.
- [Lakshman 1997] T. V. Lakshman, U. Madhow, "The Performance of TCP/IP for Networks with High Bandwidth-Delay Products and Random Loss," *IEEE/ACM Transactions on Networking*, Vol. 5, No. 3 (1997), pp. 336–350.
- [Lakshman 2004] T. V. Lakshman, T. Nandagopal, R. Ramjee, K. Sabnani, T. Woo, "The SoftRouter Architecture," *Proc. 3rd ACM Workshop on Hot Topics in Networks (Hotnets-III)*, Nov. 2004.
- [Lam 1980] S. Lam, "A Carrier Sense Multiple Access Protocol for Local Net-

- works," *Computer Networks*, Vol. 4 (1980), pp. 21–32.
- [Lamport 1989] L. Lamport, "The Part-Time Parliament," Technical Report 49, Systems Research Center, Digital Equipment Corp., Palo Alto, Sept. 1989.
- [Lampson 1983] Lampson, Butler W. "Hints for computer system design," *ACM SIGOPS Operating Systems Review*, Vol. 17, No. 5, 1983.
- [Lampson 1996] B. Lampson, "How to Build a Highly Available System Using Consensus," *Proc. 10th International Workshop on Distributed Algorithms (WDAG '96)*, Özalp Babaoglu and Keith Marzullo (Eds.), Springer-Verlag, pp. 1–17.
- [Lawton 2001] G. Lawton, "Is IPv6 Finally Gaining Ground?" *IEEE Computer Magazine* (Aug. 2001), pp. 11–15.
- [LeBlond 2011] S. Le Blond, C. Zhang, A. Legout, K. Ross, W. Dabbous. 2011, "I know where you are and what you are sharing: exploiting P2P communications to invade users' privacy." *2011 ACM Internet Measurement Conference*, ACM, New York, NY, USA, pp. 45–60.
- [Leighton 2009] T. Leighton, "Improving Performance on the Internet," *Communications of the ACM*, Vol. 52, No. 2 (Feb. 2009), pp. 44–51.
- [Leiner 1998] B. Leiner, V. Cerf, D. Clark, R. Kahn, L. Kleinrock, D. Lynch, J. Postel, L. Roberts, S. Woolf, "A Brief History of the Internet," <http://www.isoc.org/internet/history/brief.html>
- [Leung 2006] K. Leung, V. O.K. Li, "TCP in Wireless Networks: Issues, Approaches, and Challenges," *IEEE Commun. Surveys and Tutorials*, Vol. 8, No. 4 (2006), pp. 64–79.
- [Levin 2012] D. Levin, A. Wundsam, B. Heller, N. Handigol, A. Feldmann, "Logically Centralized?: State Distribution Trade-offs in Software Defined Networks," *Proc. First Workshop on Hot Topics in Software Defined Networks* (Aug. 2012), pp. 1–6.
- [Li 2004] L. Li, D. Alderson, W. Willinger, J. Doyle, "A First-Principles Approach to Understanding the Internet's Router-Level Topology," *Proc. 2004 ACM SIGCOMM* (Portland, OR, Aug. 2004).
- [Li 2007] J. Li, M. Guidero, Z. Wu, E. Purpus, T. Ehrenkranz, "BGP Routing Dynamics Revisited," *ACM Computer Communication Review* (Apr. 2007).
- [Li 2015] S.Q. Li, "Building Softcom Ecosystem Foundation," Open Networking Summit, 2015.
- [Lin 2001] Y. Lin, I. Chlamtac, *Wireless and Mobile Network Architectures*, John Wiley and Sons, New York, NY, 2001.
- [Liogkas 2006] N. Liogkas, R. Nelson, E. Kohler, L. Zhang, "Exploiting BitTorrent for Fun (but Not Profit)," *6th International Workshop on Peer-to-Peer Systems (IPTPS 2006)*.
- [Liu 2003] J. Liu, I. Matta, M. Crovella, "End-to-End Inference of Loss Nature in a Hybrid Wired/Wireless Environment," *Proc. WiOpt'03: Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks*.
- [Locher 2006] T. Locher, P. Moor, S. Schmid, R. Wattenhofer, "Free Riding in BitTorrent is Cheap," *Proc. ACM HotNets 2006* (Irvine CA, Nov. 2006).
- [Lui 2004] J. Lui, V. Misra, D. Rubenstein, "On the Robustness of Soft State Protocols," *Proc. IEEE Int. Conference on Network Protocols (ICNP '04)*, pp. 50–60.
- [Mahdavi 1997] J. Mahdavi, S. Floyd, "TCP-Friendly Unicast Rate-Based Flow Control," unpublished note (Jan. 1997).

- [MaxMind 2016] <http://www.maxmind.com/app/ip-location>
- [Maymounkov 2002] P. Maymounkov, D. Mazières. “Kademlia: A Peer-to-Peer Information System Based on the XOR Metric.” *Proceedings of the 1st International Workshop on Peerto-Peer Systems (IPTPS '02)* (Mar. 2002), pp. 53–65.
- [McKeown 1997a] N. McKeown, M. Izzard, A. Mekkittikul, W. Ellersick, M. Horowitz, “The Tiny Tera: A Packet Switch Core,” *IEEE Micro Magazine* (Jan.–Feb. 1997).
- [McKeown 1997b] N. McKeown, “A Fast Switched Backplane for a Gigabit Switched Router,” *Business Communications Review*, Vol. 27, No. 12. http://tiny-tera.stanford.edu/~nickm/papers/cisco_fasts_wp.pdf
- [McKeown 2008] N. McKeown, T. Anderson, H. Balakrishnan, G. Parulkar, L. Peterson, J. Rexford, S. Shenker, J. Turner. 2008. OpenFlow: Enabling Innovation in Campus Networks. *SIGCOMM Comput. Commun. Rev.* 38, 2 (Mar. 2008), pp. 69–74.
- [McQuillan 1980] J. McQuillan, I. Richer, E. Rosen, “The New Routing Algorithm for the Arpanet,” *IEEE Transactions on Communications*, Vol. 28, No. 5 (May 1980), pp. 711–719.
- [Metcalf 1976] R. M. Metcalfe, D. R. Boggs. “Ethernet: Distributed Packet Switching for Local Computer Networks,” *Communications of the Association for Computing Machinery*, Vol. 19, No. 7 (July 1976), pp. 395–404.
- [Meyers 2004] A. Myers, T. Ng, H. Zhang, “Rethinking the Service Model: Scaling Ethernet to a Million Nodes,” *ACM Hotnets Conference*, 2004.
- [MFA Forum 2016] IP/MPLS Forum homepage, <http://www.ipmplsforum.org/>
- [Mockapetris 1988] P. V. Mockapetris, K. J. Dunlap, “Development of the Domain Name System,” *Proc. 1988 ACM SIGCOMM* (Stanford, CA, Aug. 1988).
- [Mockapetris 2005] P. Mockapetris, Sigcomm Award Lecture, video available at <http://www.postel.org/sigcomm>
- [Molinero-Fernandez 2002] P. Molinaro-Fernandez, N. McKeown, H. Zhang, “Is IP Going to Take Over the World (of Communications)?” *Proc. 2002 ACM Hotnets*.
- [Molle 1987] M. L. Molle, K. Sohraby, A. N. Venetsanopoulos, “Space-Time Models of Asynchronous CSMA Protocols for Local Area Networks,” *IEEE Journal on Selected Areas in Communications*, Vol. 5, No. 6 (1987), pp. 956–968.
- [Moore 2001] D. Moore, G. Voelker, S. Savage, “Inferring Internet Denial of Service Activity,” *Proc. 2001 USENIX Security Symposium* (Washington, DC, Aug. 2001).
- [Motorola 2007] Motorola, “Long Term Evolution (LTE): A Technical Overview,” http://www.motorola.com/staticfiles/Business/Solutions/Industry%20Solutions/Service%20Providers/Wireless%20Operators/LTE/_Document/Static%20Files/6834_MotDoc_New.pdf
- [Mouly 1992] M. Mouly, M. Pautet, *The GSM System for Mobile Communications*, Cell and Sys, Palaiseau, France, 1992.
- [Moy 1998] J. Moy, *OSPF: Anatomy of An Internet Routing Protocol*, Addison-Wesley, Reading, MA, 1998.
- [Mukherjee 1997] B. Mukherjee, *Optical Communication Networks*, McGraw-Hill, 1997.
- [Mukherjee 2006] B. Mukherjee, *Optical WDM Networks*, Springer, 2006.
- [Mysore 2009] R. N. Mysore, A. Pamboris, N. Farrington, N. Huang, P. Miri, S. Radhakrishnan, V. Subramanya, A. Vahdat, “PortLand: A Scalable Fault-Tolerant Layer 2 Data Center Network Fabric,” *Proc. 2009 ACM SIGCOMM*.

- [Nahum 2002] E. Nahum, T. Barzilai, D. Kandlur, "Performance Issues in WWW Servers," *IEEE/ACM Transactions on Networking*, Vol 10, No. 1 (Feb. 2002).
- [Netflix Open Connect 2016] Netflix Open Connect CDN, 2016, <https://openconnect.netflix.com/>
- [Netflix Video 1] Designing Netflix's Content Delivery System, D. Fulllager, 2014, <https://www.youtube.com/watch?v=LkLLpYdDINA>
- [Netflix Video 2] Scaling the Netflix Global CDN, D. Temkin, 2015, https://www.youtube.com/watch?v=tbqcsHg-Q_o
- [Neumann 1997] R. Neumann, "Internet Routing Black Hole," *The Risks Digest: Forum on Risks to the Public in Computers and Related Systems*, Vol. 19, No. 12 (May 1997). <http://catless.ncl.ac.uk/Risks/19.12.html#subj1.1>
- [Neville-Neil 2009] G. Neville-Neil, "Whither Sockets?" *Communications of the ACM*, Vol. 52, No. 6 (June 2009), pp. 51–55.
- [Nicholson 2006] A Nicholson, Y. Chawathe, M. Chen, B. Noble, D. Wetherall, "Improved Access Point Selection," *Proc. 2006 ACM Mobisys Conference* (Uppsala Sweden, 2006).
- [Nielsen 1997] H. F. Nielsen, J. Gettys, A. Baird-Smith, E. Prud'hommeaux, H. W. Lie, C. Lilley, "Network Performance Effects of HTTP/1.1, CSS1, and PNG," *W3C Document*, 1997 (also appears in *Proc. 1997 ACM SIGCOM* (Cannes, France, Sept 1997), pp. 155–166.
- [NIST 2001] National Institute of Standards and Technology, "Advanced Encryption Standard (AES)," Federal Information Processing Standards 197, Nov. 2001, <http://csrc.nist.gov/publications/fips/fips197/fips-197.pdf>
- [NIST IPv6 2015] US National Institute of Standards and Technology, "Estimating IPv6 & DNSSEC Deployment SnapShots," <http://fedv6-deployment.antd.nist.gov/snap-all.html>
- [Nmap 2012] Nmap homepage, <http://www.insecure.com/nmap>
- [Nonnenmacher 1998] J. Nonnenmacher, E. Biersak, D. Towsley, "Parity-Based Loss Recovery for Reliable Multicast Transmission," *IEEE/ACM Transactions on Networking*, Vol. 6, No. 4 (Aug. 1998), pp. 349–361.
- [Nygren 2010] Erik Nygren, Ramesh K. Sitaraman, and Jennifer Sun, "The Akamai Network: A Platform for High-performance Internet Applications," *SIGOPS Oper. Syst. Rev.* 44, 3 (Aug. 2010), 2–19.
- [ONF 2016] Open Networking Foundation, Technical Library, <https://www.open-networking.org/sdn-resources/technical-library>
- [ONOS 2016] Open Network Operating System (ONOS), "Architecture Guide," <https://wiki.onosproject.org/display/ONOS/Architecture+Guide>, 2016.
- [OpenFlow 2009] Open Network Foundation, "OpenFlow Switch Specification 1.0.0, TS-001," <https://www.opennetworking.org/images/stories/downloads/sdn-resources/onf-specifications/openflow/openflow-spec-v1.0.0.pdf>
- [OpenDaylight Lithium 2016] OpenDaylight, "Lithium," <https://www.opendaylight.org/lithium>
- [OSI 2012] International Organization for Standardization homepage, <http://www.iso.org/iso/en/ISOOnline.frontpage>
- [Osterweil 2012] E. Osterweil, D. McPherson, S. DiBenedetto, C. Papadopoulos, D. Massey, "Behavior of DNS Top Talkers," *Passive and Active Measurement Conference*, 2012.

- [Padhye 2000] J. Padhye, V. Firoiu, D. Towsley, J. Kurose, “Modeling TCP Reno Performance: A Simple Model and Its Empirical Validation,” *IEEE/ACM Transactions on Networking*, Vol. 8 No. 2 (Apr. 2000), pp. 133–145.
- [Padhye 2001] J. Padhye, S. Floyd, “On Inferring TCP Behavior,” *Proc. 2001 ACM SIGCOMM* (San Diego, CA, Aug. 2001).
- [Palat 2009] S. Palat, P. Godin, “The LTE Network Architecture: A Comprehensive Tutorial,” in *LTE—The UMTS Long Term Evolution: From Theory to Practice*. Also available as a standalone Alcatel white paper.
- [Panda 2013] A. Panda, C. Scott, A. Ghodsi, T. Koponen, S. Shenker, “CAP for Networks,” *Proc. ACM HotSDN '13*, pp. 91–96.
- [Parekh 1993] A. Parekh, R. Gallager, “A Generalized Processor Sharing Approach to Flow Control in Integrated Services Networks: The Single-Node Case,” *IEEE/ACM Transactions on Networking*, Vol. 1, No. 3 (June 1993), pp. 344–357.
- [Partridge 1992] C. Partridge, S. Pink, “An Implementation of the Revised Internet Stream Protocol (ST-2),” *Journal of Internetworking: Research and Experience*, Vol. 3, No. 1 (Mar. 1992).
- [Partridge 1998] C. Partridge, et al. “A Fifty Gigabit per second IP Router,” *IEEE/ACM Transactions on Networking*, Vol. 6, No. 3 (Jun. 1998), pp. 237–248.
- [Pathak 2010] A. Pathak, Y. A. Wang, C. Huang, A. Greenberg, Y. C. Hu, J. Li, K. W. Ross, “Measuring and Evaluating TCP Splitting for Cloud Services,” *Passive and Active Measurement (PAM) Conference* (Zurich, 2010).
- [Perkins 1994] A. Perkins, “Networking with Bob Metcalfe,” *The Red Herring Magazine* (Nov. 1994).
- [Perkins 1998] C. Perkins, O. Hodson, V. Hardman, “A Survey of Packet Loss Recovery Techniques for Streaming Audio,” *IEEE Network Magazine* (Sept./Oct. 1998), pp. 40–47.
- [Perkins 1998b] C. Perkins, *Mobile IP: Design Principles and Practice*, Addison-Wesley, Reading, MA, 1998.
- [Perkins 2000] C. Perkins, *Ad Hoc Networking*, Addison-Wesley, Reading, MA, 2000.
- [Perlman 1999] R. Perlman, *Interconnections: Bridges, Routers, Switches, and Internetworking Protocols*, 2nd ed., Addison-Wesley Professional Computing Series, Reading, MA, 1999.
- [PGPI 2016] The International PGP homepage, <http://www.pgpi.org>
- [Phifer 2000] L. Phifer, “The Trouble with NAT,” *The Internet Protocol Journal*, Vol. 3, No. 4 (Dec. 2000), http://www.cisco.com/warp/public/759/ipj_3-4/ipj_3-4_nat.html
- [Piatek 2007] M. Piatek, T. Isdal, T. Anderson, A. Krishnamurthy, A. Venkataramani, “Do Incentives Build Robustness in Bittorrent?,” *Proc. NSDI* (2007).
- [Piatek 2008] M. Piatek, T. Isdal, A. Krishnamurthy, T. Anderson, “One Hop Reputations for Peer-to-peer File Sharing Workloads,” *Proc. NSDI* (2008).
- [Pickholtz 1982] R. Pickholtz, D. Schilling, L. Milstein, “Theory of Spread Spectrum Communication—a Tutorial,” *IEEE Transactions on Communications*, Vol. 30, No. 5 (May 1982), pp. 855–884.
- [PingPlotter 2016] PingPlotter homepage, <http://www.pingplotter.com>
- [Piscatello 1993] D. Piscatello, A. Lyman Chapin, *Open Systems Networking*, Addison-Wesley, Reading, MA, 1993.

- [Pomeranz 2010] H. Pomeranz, “Practical, Visual, Three-Dimensional Pedagogy for Internet Protocol Packet Header Control Fields,” <https://righteousit.wordpress.com/2010/06/27/practical-visual-three-dimensional-pedagogy-for-internet-protocol-packet-header-control-fields/>, June 2010.
- [Potaroo 2016] “Growth of the BGP Table—1994 to Present,” <http://bgp.potaroo.net/>
- [PPLive 2012] PPLive homepage, <http://www.pplive.com>
- [Qazi 2013] Z. Qazi, C. Tu, L. Chiang, R. Miao, V. Sekar, M. Yu, “SIMPLE-fying Middlebox Policy Enforcement Using SDN,” *ACM SIGCOMM Conference* (Aug. 2013), pp. 27–38.
- [Quagga 2012] Quagga, “Quagga Routing Suite,” <http://www.quagga.net/>
- [Quittner 1998] J. Quittner, M. Slatalla, *Speeding the Net: The Inside Story of Netscape and How It Challenged Microsoft*, Atlantic Monthly Press, 1998.
- [Quova 2016] www.quova.com
- [Ramakrishnan 1990] K. K. Ramakrishnan, R. Jain, “A Binary Feedback Scheme for Congestion Avoidance in Computer Networks,” *ACM Transactions on Computer Systems*, Vol. 8, No. 2 (May 1990), pp. 158–181.
- [Raman 1999] S. Raman, S. McCanne, “A Model, Analysis, and Protocol Framework for Soft State-based Communication,” *Proc. 1999 ACM SIGCOMM* (Boston, MA, Aug. 1999).
- [Raman 2007] B. Raman, K. Chebrolu, “Experiences in Using WiFi for Rural Internet in India,” *IEEE Communications Magazine*, Special Issue on New Directions in Networking Technologies in Emerging Economies (Jan. 2007).
- [Ramaswami 2010] R. Ramaswami, K. Sivarajan, G. Sasaki, *Optical Networks: A Practical Perspective*, Morgan Kaufman Publishers, 2010.
- [Ramjee 1994] R. Ramjee, J. Kurose, D. Towsley, H. Schulzrinne, “Adaptive Playout Mechanisms for Packetized Audio Applications in Wide-Area Networks,” *Proc. 1994 IEEE INFOCOM*.
- [Rao 2011] A. S. Rao, Y. S. Lim, C. Barakat, A. Legout, D. Towsley, W. Dabbous, “Network Characteristics of Video Streaming Traffic,” *Proc. 2011 ACM CoNEXT* (Tokyo).
- [Ren 2006] S. Ren, L. Guo, X. Zhang, “ASAP: An AS-Aware Peer-Relay Protocol for High Quality VoIP,” *Proc. 2006 IEEE ICDCS* (Lisboa, Portugal, July 2006).
- [Rescorla 2001] E. Rescorla, *SSL and TLS: Designing and Building Secure Systems*, Addison-Wesley, Boston, 2001.
- [RFC 001] S. Crocker, “Host Software,” RFC 001 (the *very first* RFC!).
- [RFC 768] J. Postel, “User Datagram Protocol,” RFC 768, Aug. 1980.
- [RFC 791] J. Postel, “Internet Protocol: DARPA Internet Program Protocol Specification,” RFC 791, Sept. 1981.
- [RFC 792] J. Postel, “Internet Control Message Protocol,” RFC 792, Sept. 1981.
- [RFC 793] J. Postel, “Transmission Control Protocol,” RFC 793, Sept. 1981.
- [RFC 801] J. Postel, “NCP/TCP Transition Plan,” RFC 801, Nov. 1981.
- [RFC 826] D. C. Plummer, “An Ethernet Address Resolution Protocol—or—Converting Network Protocol Addresses to 48-bit Ethernet Address for Transmission on Ethernet Hardware,” RFC 826, Nov. 1982.

- [RFC 829] V. Cerf, "Packet Satellite Technology Reference Sources," RFC 829, Nov. 1982.
- [RFC 854] J. Postel, J. Reynolds, "TELNET Protocol Specification," RFC 854, May 1993.
- [RFC 950] J. Mogul, J. Postel, "Internet Standard Subnetting Procedure," RFC 950, Aug. 1985.
- [RFC 959] J. Postel and J. Reynolds, "File Transfer Protocol (FTP)," RFC 959, Oct. 1985.
- [RFC 1034] P. V. Mockapetris, "Domain Names—Concepts and Facilities," RFC 1034, Nov. 1987.
- [RFC 1035] P. Mockapetris, "Domain Names—Implementation and Specification," RFC 1035, Nov. 1987.
- [RFC 1058] C. L. Hendrick, "Routing Information Protocol," RFC 1058, June 1988.
- [RFC 1071] R. Braden, D. Borman, and C. Partridge, "Computing the Internet Checksum," RFC 1071, Sept. 1988.
- [RFC 1122] R. Braden, "Requirements for Internet Hosts—Communication Layers," RFC 1122, Oct. 1989.
- [RFC 1123] R. Braden, ed., "Requirements for Internet Hosts—Application and Support," RFC-1123, Oct. 1989.
- [RFC 1142] D. Oran, "OSI IS-IS Intra-Domain Routing Protocol," RFC 1142, Feb. 1990.
- [RFC 1190] C. Topolcic, "Experimental Internet Stream Protocol: Version 2 (ST-II)," RFC 1190, Oct. 1990.
- [RFC 1256] S. Deering, "ICMP Router Discovery Messages," RFC 1256, Sept. 1991.
- [RFC 1320] R. Rivest, "The MD4 Message-Digest Algorithm," RFC 1320, Apr. 1992.
- [RFC 1321] R. Rivest, "The MD5 Message-Digest Algorithm," RFC 1321, Apr. 1992.
- [RFC 1323] V. Jacobson, S. Braden, D. Borman, "TCP Extensions for High Performance," RFC 1323, May 1992.
- [RFC 1422] S. Kent, "Privacy Enhancement for Internet Electronic Mail: Part II: Certificate-Based Key Management," RFC 1422.
- [RFC 1546] C. Partridge, T. Mendez, W. Milliken, "Host Anycasting Service," RFC 1546, 1993.
- [RFC 1584] J. Moy, "Multicast Extensions to OSPF," RFC 1584, Mar. 1994.
- [RFC 1633] R. Braden, D. Clark, S. Shenker, "Integrated Services in the Internet Architecture: an Overview," RFC 1633, June 1994.
- [RFC 1636] R. Braden, D. Clark, S. Crocker, C. Huitema, "Report of IAB Workshop on Security in the Internet Architecture," RFC 1636, Nov. 1994.
- [RFC 1700] J. Reynolds, J. Postel, "Assigned Numbers," RFC 1700, Oct. 1994.
- [RFC 1752] S. Bradner, A. Mankin, "The Recommendations for the IP Next Generation Protocol," RFC 1752, Jan. 1995.
- [RFC 1918] Y. Rekhter, B. Moskowitz, D. Karrenberg, G. J. de Groot, E. Lear,

- “Address Allocation for Private Internets,” RFC 1918, Feb. 1996.
- [RFC 1930] J. Hawkinson, T. Bates, “Guidelines for Creation, Selection, and Registration of an Autonomous System (AS),” RFC 1930, Mar. 1996.
- [RFC 1939] J. Myers, M. Rose, “Post Office Protocol—Version 3,” RFC 1939, May 1996.
- [RFC 1945] T. Berners-Lee, R. Fielding, H. Frystyk, “Hypertext Transfer Protocol—HTTP/1.0,” RFC 1945, May 1996.
- [RFC 2003] C. Perkins, “IP Encapsulation Within IP,” RFC 2003, Oct. 1996.
- [RFC 2004] C. Perkins, “Minimal Encapsulation Within IP,” RFC 2004, Oct. 1996.
- [RFC 2018] M. Mathis, J. Mahdavi, S. Floyd, A. Romanow, “TCP Selective Acknowledgment Options,” RFC 2018, Oct. 1996.
- [RFC 2131] R. Droms, “Dynamic Host Configuration Protocol,” RFC 2131, Mar. 1997.
- [RFC 2136] P. Vixie, S. Thomson, Y. Rekhter, J. Bound, “Dynamic Updates in the Domain Name System,” RFC 2136, Apr. 1997.
- [RFC 2205] R. Braden, Ed., L. Zhang, S. Berson, S. Herzog, S. Jamin, “Resource ReSerVation Protocol (RSVP)—Version 1 Functional Specification,” RFC 2205, Sept. 1997.
- [RFC 2210] J. Wroclawski, “The Use of RSVP with IETF Integrated Services,” RFC 2210, Sept. 1997.
- [RFC 2211] J. Wroclawski, “Specification of the Controlled-Load Network Element Service,” RFC 2211, Sept. 1997.
- [RFC 2215] S. Shenker, J. Wroclawski, “General Characterization Parameters for Integrated Service Network Elements,” RFC 2215, Sept. 1997.
- [RFC 2326] H. Schulzrinne, A. Rao, R. Lanphier, “Real Time Streaming Protocol (RTSP),” RFC 2326, Apr. 1998.
- [RFC 2328] J. Moy, “OSPF Version 2,” RFC 2328, Apr. 1998.
- [RFC 2420] H. Kummert, “The PPP Triple-DES Encryption Protocol (3DESE),” RFC 2420, Sept. 1998.
- [RFC 2453] G. Malkin, “RIP Version 2,” RFC 2453, Nov. 1998.
- [RFC 2460] S. Deering, R. Hinden, “Internet Protocol, Version 6 (IPv6) Specification,” RFC 2460, Dec. 1998.
- [RFC 2475] S. Blake, D. Black, M. Carlson, E. Davies, Z. Wang, W. Weiss, “An Architecture for Differentiated Services,” RFC 2475, Dec. 1998.
- [RFC 2578] K. McCloaghrie, D. Perkins, J. Schoenwaelder, “Structure of Management Information Version 2 (SMIv2),” RFC 2578, Apr. 1999.
- [RFC 2579] K. McCloaghrie, D. Perkins, J. Schoenwaelder, “Textual Conventions for SMIv2,” RFC 2579, Apr. 1999.
- [RFC 2580] K. McCloaghrie, D. Perkins, J. Schoenwaelder, “Conformance Statements for SMIv2,” RFC 2580, Apr. 1999.
- [RFC 2597] J. Heinanen, F. Baker, W. Weiss, J. Wroclawski, “Assured Forwarding PHB Group,” RFC 2597, June 1999.
- [RFC 2616] R. Fielding, J. Gettys, J. Mogul, H. Frystyk, L. Masinter, P. Leach, T. Berners-Lee, R. Fielding, “Hypertext Transfer Protocol—HTTP/1.1,” RFC 2616,

June 1999.

[RFC 2663] P. Srisuresh, M. Holdrege, "IP Network Address Translator (NAT) Terminology and Considerations," RFC 2663.

[RFC 2702] D. Awduche, J. Malcolm, J. Agogbua, M. O'Dell, J. McManus, "Requirements for Traffic Engineering Over MPLS," RFC 2702, Sept. 1999.

[RFC 2827] P. Ferguson, D. Senie, "Network Ingress Filtering: Defeating Denial of Service Attacks which Employ IP Source Address Spoofing," RFC 2827, May 2000.

[RFC 2865] C. Rigney, S. Willens, A. Rubens, W. Simpson, "Remote Authentication Dial In User Service (RADIUS)," RFC 2865, June 2000.

[RFC 3007] B. Wellington, "Secure Domain Name System (DNS) Dynamic Update," RFC 3007, Nov. 2000.

[RFC 3022] P. Srisuresh, K. Egevang, "Traditional IP Network Address Translator (Traditional NAT)," RFC 3022, Jan. 2001.

[RFC 3022] P. Srisuresh, K. Egevang, "Traditional IP Network Address Translator (Traditional NAT)," RFC 3022, Jan. 2001.

[RFC 3031] E. Rosen, A. Viswanathan, R. Callon, "Multiprotocol Label Switching Architecture," RFC 3031, Jan. 2001.

[RFC 3032] E. Rosen, D. Tappan, G. Fedorkow, Y. Rekhter, D. Farinacci, T. Li, A. Conta, "MPLS Label Stack Encoding," RFC 3032, Jan. 2001.

[RFC 3168] K. Ramakrishnan, S. Floyd, D. Black, "The Addition of Explicit Congestion Notification (ECN) to IP," RFC 3168, Sept. 2001.

[RFC 3209] D. Awduche, L. Berger, D. Gan, T. Li, V. Srinivasan, G. Swallow, "RSVP-TE: Extensions to RSVP for LSP Tunnels," RFC 3209, Dec. 2001.

[RFC 3221] G. Huston, "Commentary on Inter-Domain Routing in the Internet," RFC 3221, Dec. 2001.

[RFC 3232] J. Reynolds, "Assigned Numbers: RFC 1700 Is Replaced by an On-line Database," RFC 3232, Jan. 2002.

[RFC 3234] B. Carpenter, S. Brim, "Middleboxes: Taxonomy and Issues," RFC 3234, Feb. 2002.

[RFC 3246] B. Davie, A. Charny, J.C.R. Bennet, K. Benson, J.Y. Le Boudec, W. Courtney, S. Davari, V. Firoiu, D. Stiliadis, "An Expedited Forwarding PHB (Per-Hop Behavior)," RFC 3246, Mar. 2002.

[RFC 3260] D. Grossman, "New Terminology and Clarifications for Diffserv," RFC 3260, Apr. 2002.

[RFC 3261] J. Rosenberg, H. Schulzrinne, G. Carmarillo, A. Johnston, J. Peterson, R. Sparks, M. Handley, E. Schooler, "SIP: Session Initiation Protocol," RFC 3261, July 2002.

[RFC 3272] J. Boyle, V. Gill, A. Hannan, D. Cooper, D. Awduche, B. Christian, W. S. Lai, "Overview and Principles of Internet Traffic Engineering," RFC 3272, May 2002.

[RFC 3286] L. Ong, J. Yoakum, "An Introduction to the Stream Control Transmission Protocol (SCTP)," RFC 3286, May 2002.

[RFC 3346] J. Boyle, V. Gill, A. Hannan, D. Cooper, D. Awduche, B. Christian, W. S. Lai, "Applicability Statement for Traffic Engineering with MPLS," RFC 3346, Aug. 2002.

- [RFC 3390] M. Allman, S. Floyd, C. Partridge, "Increasing TCP's Initial Window," RFC 3390, Oct. 2002.
- [RFC 3410] J. Case, R. Mundy, D. Partain, "Introduction and Applicability Statements for Internet Standard Management Framework," RFC 3410, Dec. 2002.
- [RFC 3414] U. Blumenthal and B. Wijnen, "User-based Security Model (USM) for Version 3 of the Simple Network Management Protocol (SNMPv3)," RFC 3414, Dec. 2002.
- [RFC 3416] R. Presuhn, J. Case, K. McCloaghrie, M. Rose, S. Waldbusser, "Version 2 of the Protocol Operations for the Simple Network Management Protocol (SNMP)," Dec. 2002.
- [RFC 3439] R. Bush, D. Meyer, "Some Internet Architectural Guidelines and Philosophy," RFC 3439, Dec. 2003.
- [RFC 3447] J. Jonsson, B. Kaliski, "Public-Key Cryptography Standards (PKCS) #1: RSA Cryptography Specifications Version 2.1," RFC 3447, Feb. 2003.
- [RFC 3468] L. Andersson, G. Swallow, "The Multiprotocol Label Switching (MPLS) Working Group Decision on MPLS Signaling Protocols," RFC 3468, Feb. 2003.
- [RFC 3469] V. Sharma, Ed., F. Hellstrand, Ed., "Framework for Multi-Protocol Label Switching (MPLS)-based Recovery," RFC 3469, Feb. 2003.
<http://ftp.rfc-editor.org/in-notes/rfc3469.txt>
- [RFC 3501] M. Crispin, "Internet Message Access Protocol—Version 4rev1," RFC 3501, Mar. 2003.
- [RFC 3550] H. Schulzrinne, S. Casner, R. Frederick, V. Jacobson, "RTP: A Transport Protocol for Real-Time Applications," RFC 3550, July 2003.
- [RFC 3588] P. Calhoun, J. Loughney, E. Guttman, G. Zorn, J. Arkko, "Diameter Base Protocol," RFC 3588, Sept. 2003.
- [RFC 3649] S. Floyd, "HighSpeed TCP for Large Congestion Windows," RFC 3649, Dec. 2003.
- [RFC 3746] L. Yang, R. Dantu, T. Anderson, R. Gopal, "Forwarding and Control Element Separation (ForCES) Framework," Internet, RFC 3746, Apr. 2004.
- [RFC 3748] B. Aboba, L. Blunk, J. Vollbrecht, J. Carlson, H. Levkowitz, Ed., "Extensible Authentication Protocol (EAP)," RFC 3748, June 2004.
- [RFC 3782] S. Floyd, T. Henderson, A. Gurtov, "The NewReno Modification to TCP's Fast Recovery Algorithm," RFC 3782, Apr. 2004.
- [RFC 4213] E. Nordmark, R. Gilligan, "Basic Transition Mechanisms for IPv6 Hosts and Routers," RFC 4213, Oct. 2005.
- [RFC 4271] Y. Rekhter, T. Li, S. Hares, Ed., "A Border Gateway Protocol 4 (BGP-4)," RFC 4271, Jan. 2006.
- [RFC 4272] S. Murphy, "BGP Security Vulnerabilities Analysis," RFC 4274, Jan. 2006.
- [RFC 4291] R. Hinden, S. Deering, "IP Version 6 Addressing Architecture," RFC 4291, Feb. 2006.
- [RFC 4340] E. Kohler, M. Handley, S. Floyd, "Datagram Congestion Control Protocol (DCCP)," RFC 4340, Mar. 2006.
- [RFC 4443] A. Conta, S. Deering, M. Gupta, Ed., "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification,"

RFC 4443, Mar. 2006.

[RFC 4346] T. Dierks, E. Rescorla, “The Transport Layer Security (TLS) Protocol Version 1.1,” RFC 4346, Apr. 2006.

[RFC 4514] K. Zeilenga, Ed., “Lightweight Directory Access Protocol (LDAP): String Representation of Distinguished Names,” RFC 4514, June 2006.

[RFC 4601] B. Fenner, M. Handley, H. Holbrook, I. Kouvelas, “Protocol Independent Multicast—Sparse Mode (PIM-SM): Protocol Specification (Revised),” RFC 4601, Aug. 2006.

[RFC 4632] V. Fuller, T. Li, “Classless Inter-domain Routing (CIDR): The Internet Address Assignment and Aggregation Plan,” RFC 4632, Aug. 2006.

[RFC 4960] R. Stewart, ed., “Stream Control Transmission Protocol,” RFC 4960, Sept. 2007.

[RFC 4987] W. Eddy, “TCP SYN Flooding Attacks and Common Mitigations,” RFC 4987, Aug. 2007.

[RFC 5000] RFC editor, “Internet Official Protocol Standards,” RFC 5000, May 2008.

[RFC 5109] A. Li (ed.), “RTP Payload Format for Generic Forward Error Correction,” RFC 5109, Dec. 2007.

[RFC 5216] D. Simon, B. Aboba, R. Hurst, “The EAP-TLS Authentication Protocol,” RFC 5216, Mar. 2008.

[RFC 5218] D. Thaler, B. Aboba, “What Makes for a Successful Protocol?,” RFC 5218, July 2008.

[RFC 5321] J. Klensin, “Simple Mail Transfer Protocol,” RFC 5321, Oct. 2008.

[RFC 5322] P. Resnick, Ed., “Internet Message Format,” RFC 5322, Oct. 2008.

[RFC 5348] S. Floyd, M. Handley, J. Padhye, J. Widmer, “TCP Friendly Rate Control (TFRC): Protocol Specification,” RFC 5348, Sept. 2008.

[RFC 5389] J. Rosenberg, R. Mahy, P. Matthews, D. Wing, “Session Traversal Utilities for NAT (STUN),” RFC 5389, Oct. 2008.

[RFC 5411] J. Rosenberg, “A Hitchhiker’s Guide to the Session Initiation Protocol (SIP),” RFC 5411, Feb. 2009.

[RFC 5681] M. Allman, V. Paxson, E. Blanton, “TCP Congestion Control,” RFC 5681, Sept. 2009.

[RFC 5944] C. Perkins, Ed., “IP Mobility Support for IPv4, Revised,” RFC 5944, Nov. 2010.

[RFC 6265] A. Barth, “HTTP State Management Mechanism,” RFC 6265, Apr. 2011.

[RFC 6298] V. Paxson, M. Allman, J. Chu, M. Sargent, “Computing TCP’s Retransmission Timer,” RFC 6298, June 2011.

[RFC 7020] R. Housley, J. Curran, G. Huston, D. Conrad, “The Internet Numbers Registry System,” RFC 7020, Aug. 2013.

[RFC 7094] D. McPherson, D. Oran, D. Thaler, E. Osterweil, “Architectural Considerations of IP Anycast,” RFC 7094, Jan. 2014.

[RFC 7323] D. Borman, R. Braden, V. Jacobson, R. Scheffenegger (ed.), “TCP Extensions for High Performance,” RFC 7323, Sept. 2014.

[RFC 7540] M. Belshe, R. Peon, M. Thomson (Eds), “Hypertext Transfer Protocol

Version 2 (HTTP/2)," RFC 7540, May 2015.

[**Richter 2015**] P. Richter, M. Allman, R. Bush, V. Paxson, "A Primer on IPv4 Scarcity," *ACM SIGCOMM Computer Communication Review*, Vol. 45, No. 2 (Apr. 2015), pp. 21–32.

[**Roberts 1967**] L. Roberts, T. Merril, "Toward a Cooperative Network of Time-Shared Computers," *AFIPS Fall Conference* (Oct. 1966).

[**Rodriguez 2010**] R. Rodrigues, P. Druschel, "Peer-to-Peer Systems," *Communications of the ACM*, Vol. 53, No. 10 (Oct. 2010), pp. 72–82.

[**Rohde 2008**] Rohde, Schwarz, "UMTS Long Term Evolution (LTE) Technology Introduction," Application Note 1MA111.

[**Rom 1990**] R. Rom, M. Sidi, *Multiple Access Protocols: Performance and Analysis*, Springer-Verlag, New York, 1990.

[**Root Servers 2016**] Root Servers home page, <http://www.root-servers.org/>

[**RSA 1978**] R. Rivest, A. Shamir, L. Adelman, "A Method for Obtaining Digital Signatures and Public-key Cryptosystems," *Communications of the ACM*, Vol. 21, No. 2 (Feb. 1978), pp. 120–126.

[**RSA Fast 2012**] RSA Laboratories, "How Fast Is RSA?" <http://www.rsa.com/rsalabs/node.asp?id=2215>

[**RSA Key 2012**] RSA Laboratories, "How Large a Key Should Be Used in the RSA Crypto System?" <http://www.rsa.com/rsalabs/node.asp?id=2218>

[**Rubenstein 1998**] D. Rubenstein, J. Kurose, D. Towsley, "Real-Time Reliable Multicast Using Proactive Forward Error Correction," *Proceedings of NOSSDAV '98* (Cambridge, UK, July 1998).

[**Ruiz-Sanchez 2001**] M. Ruiz-Sánchez, E. Biersack, W. Dabbous, "Survey and Taxonomy of IP Address Lookup Algorithms," *IEEE Network Magazine*, Vol. 15, No. 2 (Mar./Apr. 2001), pp. 8–23.

[**Saltzer 1984**] J. Saltzer, D. Reed, D. Clark, "End-to-End Arguments in System Design," *ACM Transactions on Computer Systems (TOCS)*, Vol. 2, No. 4 (Nov. 1984).

[**Sandvine 2015**] "Global Internet Phenomena Report, Spring 2011," http://www.sandvine.com/news/global_broadband_trends.asp, 2011.

[**Sardar 2006**] B. Sardar, D. Saha, "A Survey of TCP Enhancements for Last-Hop Wireless Networks," *IEEE Commun. Surveys and Tutorials*, Vol. 8, No. 3 (2006), pp. 20–34.

[**Saroiu 2002**] S. Saroiu, P. K. Gummadi, S. D. Gribble, "A Measurement Study of Peer-to-Peer File Sharing Systems," *Proc. of Multimedia Computing and Networking (MMCN)* (2002).

[**Sauter 2014**] M. Sauter, *From GSM to LTE-Advanced*, John Wiley and Sons, 2014.

[**Savage 2015**] D. Savage, J. Ng, S. Moore, D. Slice, P. Paluch, R. White, "Enhanced Interior Gateway Routing Protocol," Internet Draft, draft-savage-eigrp-04.txt, Aug. 2015.

[**Saydam 1996**] T. Saydam, T. Magedanz, "From Networks and Network Management into Service and Service Management," *Journal of Networks and System Management*, Vol. 4, No. 4 (Dec. 1996), pp. 345–348.

- [Schiller 2003] J. Schiller, *Mobile Communications* 2nd edition, Addison Wesley, 2003.
- [Schneier 1995] B. Schneier, *Applied Cryptography: Protocols, Algorithms, and Source Code in C*, John Wiley and Sons, 1995.
- [Schulzrinne-RTP 2012] Henning Schulzrinne's RTP site, <http://www.cs.columbia.edu/~hgs/rtp>
- [Schulzrinne-SIP 2016] Henning Schulzrinne's SIP site, <http://www.cs.columbia.edu/~hgs/sip>
- [Schwartz 1977] M. Schwartz, *Computer-Communication Network Design and Analysis*, Prentice-Hall, Englewood Cliffs, NJ, 1977.
- [Schwartz 1980] M. Schwartz, *Information, Transmission, Modulation, and Noise*, McGraw Hill, New York, NY 1980.
- [Schwartz 1982] M. Schwartz, "Performance Analysis of the SNA Virtual Route Pacing Control," *IEEE Transactions on Communications*, Vol. 30, No. 1 (Jan. 1982), pp. 172–184.
- [Scourias 2012] J. Scourias, "Overview of the Global System for Mobile Communications: GSM." <http://www.privateline.com/PCS/GSM0.html>
- [SDNHub 2016] SDNHub, "App Development Tutorials," <http://sdnhub.org/tutorials/>
- [Segaller 1998] S. Segaller, *Nerds 2.0.1, A Brief History of the Internet*, TV Books, New York, 1998.
- [Sekar 2011] V. Sekar, S. Ratnasamy, M. Reiter, N. Egi, G. Shi, "The Middlebox Manifesto: Enabling Innovation in Middlebox Deployment," *Proc. 10th ACM Workshop on Hot Topics in Networks (HotNets)*, Article 21, 6 pages.
- [Serpanos 2011] D. Serpanos, T. Wolf, *Architecture of Network Systems*, Morgan Kaufmann Publishers, 2011.
- [Shacham 1990] N. Shacham, P. McKenney, "Packet Recovery in High-Speed Networks Using Coding and Buffer Management," *Proc. 1990 IEEE INFOCOM* (San Francisco, CA, Apr. 1990), pp. 124–131.
- [Shaikh 2001] A. Shaikh, R. Tewari, M. Agrawal, "On the Effectiveness of DNS-based Server Selection," *Proc. 2001 IEEE INFOCOM*.
- [Singh 1999] S. Singh, *The Code Book: The Evolution of Secrecy from Mary, Queen of Scots to Quantum Cryptography*, Doubleday Press, 1999.
- [Singh 2015] A. Singh, J. Ong, Agarwal, G. Anderson, A. Armistead, R. Banno, S. Boving, G. Desai, B. Felderman, P. Germano, A. Kanagala, J. Provost, J. Simmons, E. Tanda, J. Wanderer, U. Hölzle, S. Stuart, A. Vahdat, "Jupiter Rising: A Decade of Clos Topologies and Centralized Control in Google's Datacenter Network," *Sigcomm*, 2015.
- [SIP Software 2016] H. Schulzrinne Software Package site, <http://www.cs.columbia.edu/IRT/software>
- [Skoudis 2004] E. Skoudis, L. Zeltser, *Malware: Fighting Malicious Code*, Prentice Hall, 2004.
- [Skoudis 2006] E. Skoudis, T. Liston, *Counter Hack Reloaded: A Step-by-Step Guide to Computer Attacks and Effective Defenses (2nd Edition)*, Prentice Hall, 2006.
- [Smith 2009] J. Smith, "Fighting Physics: A Tough Battle," *Communications of the ACM*, Vol. 52, No. 7 (July 2009), pp. 60–65.

- [Snort 2012] Sourcefire Inc., Snort homepage, <http://http://www.snort.org/>
- [Solensky 1996] F. Solensky, "IPv4 Address Lifetime Expectations," in *IPng: Internet Protocol Next Generation* (S. Bradner, A. Mankin, ed.), Addison-Wesley, Reading, MA, 1996.
- [Spragins 1991] J. D. Spragins, *Telecommunications Protocols and Design*, Addison-Wesley, Reading, MA, 1991.
- [Srikant 2004] R. Srikant, *The Mathematics of Internet Congestion Control*, Birkhauser, 2004
- [Steinder 2002] M. Steinder, A. Sethi, "Increasing Robustness of Fault Localization Through Analysis of Lost, Spurious, and Positive Symptoms," *Proc. 2002 IEEE INFOCOM*.
- [Stevens 1990] W. R. Stevens, *Unix Network Programming*, Prentice-Hall, Englewood Cliffs, NJ.
- [Stevens 1994] W. R. Stevens, *TCP/IP Illustrated, Vol. 1: The Protocols*, Addison-Wesley, Reading, MA, 1994.
- [Stevens 1997] W.R. Stevens, *Unix Network Programming, Volume 1: Networking APIs-Sockets and XTI*, 2nd edition, Prentice-Hall, Englewood Cliffs, NJ, 1997.
- [Stewart 1999] J. Stewart, *BGP4: Interdomain Routing in the Internet*, Addison-Wesley, 1999.
- [Stone 1998] J. Stone, M. Greenwald, C. Partridge, J. Hughes, "Performance of Checksums and CRC's Over Real Data," *IEEE/ACM Transactions on Networking*, Vol. 6, No. 5 (Oct. 1998), pp. 529–543.
- [Stone 2000] J. Stone, C. Partridge, "When Reality and the Checksum Disagree," *Proc. 2000 ACM SIGCOMM* (Stockholm, Sweden, Aug. 2000).
- [Strayer 1992] W. T. Strayer, B. Dempsey, A. Weaver, *XTP: The Xpress Transfer Protocol*, Addison-Wesley, Reading, MA, 1992.
- [Stubblefield 2002] A. Stubblefield, J. Ioannidis, A. Rubin, "Using the Fluhrer, Mantin, and Shamir Attack to Break WEP," *Proceedings of 2002 Network and Distributed Systems Security Symposium* (2002), pp. 17–22.
- [Subramanian 2000] M. Subramanian, *Network Management: Principles and Practice*, Addison-Wesley, Reading, MA, 2000.
- [Subramanian 2002] L. Subramanian, S. Agarwal, J. Rexford, R. Katz, "Characterizing the Internet Hierarchy from Multiple Vantage Points," *Proc. 2002 IEEE INFOCOM*.
- [Sundaresan 2006] K. Sundaresan, K. Papagiannaki, "The Need for Cross-layer Information in Access Point Selection," *Proc. 2006 ACM Internet Measurement Conference* (Rio De Janeiro, Oct. 2006).
- [Suh 2006] K. Suh, D. R. Figueiredo, J. Kurose and D. Towsley, "Characterizing and Detecting Relayed Traffic: A Case Study Using Skype," *Proc. 2006 IEEE INFOCOM* (Barcelona, Spain, Apr. 2006).
- [Sunshine 1978] C. Sunshine, Y. Dalal, "Connection Management in Transport Protocols," *Computer Networks*, North-Holland, Amsterdam, 1978.
- [Tariq 2008] M. Tariq, A. Zeitoun, V. Valancius, N. Feamster, M. Ammar, "Answering What-If Deployment and Configuration Questions with WISE," *Proc. 2008 ACM SIGCOMM* (Aug. 2008).
- [TechnOnLine 2012] TechOnLine, "Protected Wireless Networks," online webcast tutorial, http://www.techonline.com/community/tech_topic/internet/21752