

# UNIVERSITY OF CAMBRIDGE COMPUTER LABORATORY

## Computer Science Tripos Parts IA, IB, and II

### Summary List of Books Recommended by Lecturers

September 2016

This list is prepared once a year for the benefit of College Librarians and those purchasing course books. As such it aims to list the most recently available editions of current course books. However, in many cases, older editions are equally useful and this list should be used in conjunction with those in the syllabus booklets, which give more information on the suitability of titles for each course.

Key to the present list:

IA On Part IA reading lists  
IB On Part IB reading lists  
II On Part II reading lists

\*\*\* Most recommended

\*\* Recommended

\* Further reading

The syllabus booklets can be found via links from

<http://www.cl.cam.ac.uk/teaching/>

The Computer Laboratory Library aims to keep at least one copy of each of the course texts in “The Booklocker” (see <http://www.cl.cam.ac.uk/library/>).

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Agrawal, D. & Zheng, Q. (2006). *Introduction to wireless and mobile systems*. Thomson. [\*\*, II]

Aho, A.V., Sethi, R. & Ullman, J.D. (2007). *Compilers: principles, techniques and tools*. Addison-Wesley (2nd ed.). ISBN 0321491696 [\*\*, IB, II]

Anderson, R. (2008). *Security engineering*. Wiley (2nd ed.). First edition (2001) available at <http://www.cl.cam.ac.uk/users/rja14/book.html> [\*\*\*, IB, II]

Anderson, T. & Dahlin, M. (2014). *Operating systems: principles and practice*. Recursive Books (2nd ed.). ISBN 9780985673529 [\*\*, IA]

Appel, A. (1997). *Modern compiler implementation in Java/C/ML* (3 editions). Cambridge University Press. [\*\*\*, IB, II]

Bacon, J. (1997). *Concurrent Systems*. Addison-Wesley. [\*\*, IB]

Bacon, J. & Harris, T. (2003). *Operating systems*. Addison-Wesley (3rd ed.). ISBN 0321117891 [\*\*\*, IA, IB]

Ben-Ari, M. (2012). *Mathematical logic for computer science*. Springer (3rd ed.). ISBN 9781447141280 [\*\*, IB]

- Biggs, N.L. (2002). *Discrete mathematics*. Oxford University Press (2nd ed.). ISBN 9780198507178 [\*\*, IA]
- Biham, E. & Shamir, A. (1993). *Differential cryptanalysis of the data encryption standard*. Springer-Verlag. [\*\*, II]
- Bishop, C.M. (2006). *Pattern recognition and machine learning*. Springer. ISBN 0387310738 [\* , IB, II]
- Bloch, J. & Gafter, N. (2005). *Java puzzlers*. Addison-Wesley. [\*\*, IA]
- Boreskov, A. & Shikin, E. (2014). *Computer graphics: from pixels to programmable graphics hardware*. CRC Press (2nd ed.). ISBN 9781439867303 [\*\*, II]
- Bornat, R. (2005). *Proof and disproof in formal logic*. Oxford University Press. [\*\*, IA]
- Bratko, I. (2012, 2001). *PROLOG programming for artificial intelligence*. Addison-Wesley (4th, 3rd eds.). [\*\*\*, IB]
- Brooks, F.P. (1975). *The mythical man month*. Addison-Wesley. [\* , IB]
- Broy, M. & Denert, E. (ed.) (2002). *Software pioneers: contributions to software engineering*. Springer-Verlag. [\* , IA]
- Cawsey, A. (1998). *The essence of artificial intelligence*. Prentice Hall. [\* , IB]
- Cheswick, W.R., Bellovin, S.M. & Rubin, A.D. (2003). *Firewalls and Internet security: repelling the wily hacker*. Addison-Wesley (2nd ed.). ISBN 020163466X [\* , II]
- Comer, D. & Stevens, D. (2014). *Internetworking with TCP-IP, vol. 1 and 2*. Prentice Hall (6th ed.). [\*\*, IB]
- Compeau, P. & Pevzner, P.A. (2015). *Bioinformatics algorithms: an active learning approach*. Active Learning Publishers. [\*\*, II]
- Cormen, T.H., et. al. (2009). *Introduction to Algorithms*. MIT Press (3rd ed.). ISBN 9780262533058 [\*\*\*, IA, IB]
- Coulouris, G.F., Dollimore, J.B. & Kindberg, T. (2011). *Distributed systems, concepts and design*. Addison-Wesley (5th ed.). ISBN 9780273760597 [\*\*, IB]
- Cover, T.M. & Thomas, J.A. (2006). *Elements of information theory*. New York: Wiley (2nd ed.). ISBN 9780471241959 [\*\*\*, II]
- Crowe, J. & Hayes-Gill, B. (1998). *Introduction to digital electronics*. Butterworth-Heinemann. [\* , IA]
- Cutland, N.J. (1980). *Computability: an introduction to recursive function theory*. Cambridge University Press. [\*\*, IB]
- Davis, M.D., Sigal, R. & Weyuker, E.J. (1994). *Computability, complexity and languages*. Academic Press (2nd ed.). [\*\*, IB]
- de Leeuw, K. & Bergstra, J. (2007). *The history of information security*. Elsevier. [\* , II]
- Dechter, R. (2003). *Constraint processing*. Morgan Kaufmann. [\* , IB]
- Deitel, H.M. & Deitel, P.J. (2015). *Java: How to Program*. Prentice Hall (10th ed.). ISBN 0133807800 [\*\*\*, IA]
- Durbin, R., et. al. (1998). *Biological sequence analysis: probabilistic models of proteins and nucleic acids*. Cambridge University Press. ISBN 0521629713. [\*\*\*, II]
- Easley, D. & Kleinberg, J. (2010). *Networks, crowds and markets: reasoning about a highly connected world*. Cambridge University Press. ISBN 9780521195331 [\*\*, IA]

- Eckel, B. (2000). *Thinking in C++, Vol. 1: Introduction to Standard C++*. Prentice Hall (2nd ed.). [\*\*\*, IB]
- Eisner, C. & Fisman, D. (2006). *A practical introduction to PSL*. Springer (Series on Integrated Circuits and Systems). [\*\*, II]
- Felsenstein, J. (2003). *Inferring phylogenies*. Sinauer Associates. [\*\*, II]
- Flanagan, D. (2004). *Java examples in a nutshell : a tutorial companion to Java in a nutshell*. O'Reilly (3rd ed.). ISBN 9780596006204 [\*\*, IA]
- Flanagan, D. (2014). *Java in a nutshell : a desktop quick reference*. O'Reilly (6th ed.). ISBN 9781449370824 [\*\*, IA]
- Foley, J.D., et. al. (2009). *Computer graphics: principles and practice*. Addison-Wesley (3rd ed.). ISBN 9780321399526 [\*\*\*, IB]
- Forsyth, D.A. & Ponce, J. (2012). *Computer vision : a modern approach*. Prentice Hall (2nd ed.). ISBN 9780273764144 [\*\*, II]
- Foster, H.D. & Krolnik, A.C. (2008). *Creating assertion-based IP*. Springer (Series on Integrated Circuits and Systems). [\*\*, II]
- Fowler, M. (2003). *UML distilled*. Addison-Wesley (3rd ed.). [\*\*, IA]
- Galbraith, J.K. (1991). *A history of economics*. Penguin. [\*, IB]
- Gamma, E., et. al. (1995). *Design patterns: elements of reusable object-oriented software*. Addison-Wesley. [\*\*, IA]
- Gansner, E.R. & Reppy, J.H. (2004). *The Standard ML Basis Library*. Cambridge University Press. ISBN: 0521794781 [\*, IA]
- Ghallab, M., Nau, D. & Traverso, P. (2004). *Automated planning: theory and practice*. Morgan Kaufmann. [\*, IB, II]
- Ghenassia, F. (2010). *Transaction-level modeling with SystemC: TLM concepts and applications for embedded systems*. Springer. [\*\*, II]
- Gibson, J.R. (1992). *Electronic logic circuits*. Butterworth-Heinemann. [\*, IA]
- Girard, J-Y. (tr. Taylor, P. & Lafont, Y.) (1989). *Proofs and types*. Cambridge University Press. [\*\*, II]
- Goetz, B. (2006). *Java concurrency in practice*. Addison-Wesley. ISBN 9780321349606 [\*\*\*, IB]
- Goldreich, O. (2010). *P, NP, and NP-Completeness: the basics of computational complexity*. Cambridge University Press. ISBN 9780521122542 [\*\*, IB]
- Gollmann, D. (2010). *Computer security*. Wiley (3rd ed.). [\*\*, IB, II]
- Gonzalez, R.C. & Woods, R.E. (2008). *Digital image processing*. Addison-Wesley (3rd ed). [The second edition (1992) and the first edition (Gonzalez & Wintz, 1977) are as useful.]
- Gosling, J., et. al. (2014). *The Java language specification*. Addison-Wesley (Java SE 8 ed.). <http://docs.oracle.com/javase/specs/jls/se8/html/> [\*\*, IB]
- Grimmett, G. & Welsh, D. (2014). *Probability: an introduction*. Oxford University Press (2nd ed.). ISBN 9780198709978 [\*\*\*, IA]
- Grotker, T., Liao, S., Martin, G. & Swan, S. (2002). *System design with SystemC*. Springer. [\*\*, II]

- Gunter, C. (1992). *Semantics of programming languages: structures and techniques*. MIT Press. [\*\*, II]
- Hammack, R. (2013). *Book of proof*. Privately published (2nd ed.). ISBN 9780989472104. Available at <http://www.people.vcu.edu/~rhammack/BookOfProof/index.html> [\*\*\*, IA]
- Hansen, M. & Rischel, H. (1999). *Introduction to programming using SML*. Addison-Wesley. [\*\*, IA]
- Harchol-Balter, M. (2013). *Performance modelling and design of computer systems: queueing theory in action*. Cambridge University Press. ISBN 9781107027503 [\*\*, IB]
- Harris, D.M. & Harris, S.L. (2013). *Digital design and computer architecture*. Morgan Kaufmann (2nd ed.). ISBN 9780123944245 [\*\*\*, IA, IB]
- Hayes, J.P. (1993). *Introduction to digital logic design*. Addison-Wesley. [\*\*, IA]
- Hennessy, J. & Patterson, D. (2012). *Computer architecture: a quantitative approach*. Elsevier (5th ed.). ISBN 9780123838728. (Older versions of the book are also still generally relevant.) [\*\*, IB, II]
- Hennessy, M. (1990). *The semantics of programming languages*. Wiley. Out of print, but available on the web at <http://www.cs.tcd.ie/matthew.hennessy/splexternal2015/resources/sembookWiley.pdf> [\*\*, IB]
- Hindley, J.R. & Seldin, J.P. (2008). *Lambda-calculus and combinators, an introduction*. Cambridge University Press (2nd ed.). [\*\*\*, IB]
- Hirvensalo, M. (2004). *Quantum computing*. Springer (2nd ed.). ISBN 3540407049 [\*\*, II]
- Hopcroft, J.E., Motwani, R. & Ullman, J.D. (2007). *Introduction to automata theory, languages, and computation*. Addison-Wesley (3rd ed.). ISBN 0321455363 [\*\*\*, IA, IB]
- Horowitz, P. & Hill, W. (2015). *The art of electronics*. Cambridge University Press (3rd ed.). ISBN 9780521809269. [\*, IA]
- Houston, K. (2009). *How to think like a mathematician: a companion to undergraduate mathematics*. Cambridge University Press. ISBN 9780521719780. [IA, \*\*\*]
- Howard, M. & leBlanc, D. (2003). *Writing secure code*. Microsoft Press (2nd ed.) [\*, II]
- Huth, M. & Ryan M. (2004). *Logic in computer science: modelling and reasoning about systems*. Cambridge University Press (2nd ed.). ISBN 052154310X. [\*\*, IB, II]
- Jain, A.R. (1991). *The art of computer systems performance analysis*. Wiley. [\*\*, II]
- Jones, N.C. & Pevzner, P.A. (2004). *An introduction to bioinformatics algorithms*. MIT Press. [\*\*\*, II]
- Jurafsky, D. & Martin, J. (2008). *Speech and language processing*. Prentice Hall. [\*\*\*, II]
- Kahn, D. (1966). *The codebreakers: the story of secret writing*. Weidenfeld and Nicolson. [\*, II]
- Karl, H. & Willig, A. (2005). *Protocols and architectures for wireless sensor networks*. Wiley. [\*\*\*, II]
- Katz, J. & Lindell, Y. (2015). *Introduction to modern cryptography*. CRC Press (2nd ed.). ISBN 9781466570269 [\*\*\*, II]

- Katz, R.H. (2004). *Contemporary logic design*. Benjamin/Cummings. The 1994 edition is more than sufficient. [\*\*, IA]
- Kaye, P., Laflamme R. & Mosca, M. (2007). *An introduction to quantum computing*. Oxford University Press. ISBN 9780198570493 [\*\*, II]
- Keating, M. (2011). *The simple art of SoC design*. Springer. ISBN 9781441985859. [\*\*\*, II]
- Kernighan, B.W. & Ritchie, D.M. (1988). *The C programming language*. Prentice Hall (2nd ed.). [\*\*, IB]
- Keshav, S. (1997). *An engineering approach to computer networking*. Addison-Wesley (1st ed.). ISBN 0201634422 [\*, II]
- Keshav, S. (2011). *Mathematical Foundations of Computer Networking*. Addison Wesley. ISBN 9780321792105 [\*\*\*, II]
- Kim, W. & Mauborgne, R. (2015). *Blue Ocean Strategy*. Harvard Business Review Press. ISBN 9781625274496 [\*, II]
- Kleinberg, J. & Tardos, É. (2006). *Algorithm design*. Addison-Wesley. ISBN 9780321372918. [\*\*, IA, IB]
- Kleinrock, L. (1975). *Queueing systems, vol. 1. Theory*. Wiley. [\*\*, II]
- Klemperer, P. (2004). *Auctions: theory and practice*. Princeton Paperback ISBN 0-691-11925-2. [\*, II]
- Knuth, D.E. (2011). *The art of computer programming*. Addison-Wesley (3rd ed.). ISBN 978-0321751041. [\*\*, IA]
- Koblitz, N. (1994). *A course in number theory and cryptography*. Springer-Verlag (2nd ed.). [\*, II]
- Konheim, A.G. (2007). *Computer security and cryptography*. Wiley. [\*, II]
- Kozen, D.C. (1997). *Automata and computability*. Springer-Verlag. [\*\*\*, IA]
- Kurose, J.F. & Ross, K.W. (2013). *Computer networking: a top-down approach*. Pearson (6th ed.). ISBN 9780273768968 [\*\*\*, IB]
- Lamport, L. (1994). *LaTeX – a documentation preparation system user’s guide and reference manual*. Addison-Wesley (2nd ed.). [\*\*\*, IB]
- Lang, J. (2001). *The high-tech entrepreneur’s handbook: how to start and run a high-tech company*. FT.COM/Prentice Hall. [\*\*, II]
- Leffler, S. (1989). *The design and implementation of the 4.3BSD Unix operating system*. Addison-Wesley. [\*\*, IA]
- Lehman, E., Leighton, F.T., Meyer, A.R. (2012). *Mathematics for computer science*. Available at <http://courses.csail.mit.edu/6.042/spring12/mcs.pdf>. [\*\*\*, IA]
- Leveson, N.G. (1995). *Safeware: system safety and computers*. Addison-Wesley. [\*\*, IB, II]
- Leveson, N.G. (2008). *System safety engineering: back to the future*. Available at <http://sunnyday.mit.edu/book2.pdf>. [\*, IB]
- Levitt, S.D. & Dubner, S.J. (2005). *Freakonomics*. Morrow. [\*, IB]
- Lippman, S.B. (1996). *Inside the C++ object model*. Addison-Wesley. [\*\*, IB]

- Lyons, R.G. (2010). *Understanding digital signal processing*. Prentice Hall (3rd ed.). ISBN 9780132119375 [\*\*\*, II]
- Maguire, S. (1993). *Writing solid code*. Microsoft Press. [\*\*, IB]
- Manning, C.D., Raghavan, P. & Schütze, H. (2008). *Introduction to information retrieval*. Cambridge University Press. Available at <http://www-csli.stanford.edu/~hinrich/information-retrieval-book.html>. [\*\*\*, II]
- Matthews, P. (2003). *Linguistics: a very short introduction*. OUP. [\*, II]
- Maurya, A. (2012). *Running lean: Iterate from plan A to a plan that works*. O'Reilly (2nd ed.). ISBN 9781449305178 [\*, II]
- McConnell, S. (2004). *Code complete: a practical handbook of software construction*. Microsoft Press (2nd ed.). [\*\*, IA]
- McKusick, M.K., Neville-Neil, G.V., and Watson, R.N.M. (2014). *The Design and implementation of the FreeBSD operating system*. (2nd ed.). Pearson Education. ISBN 9780321968975 [\*\*, IA]
- Mead, C. & Conway, L. (1980). *Introduction to VLSI systems*. Addison-Wesley. [\*, IA]
- Mermin, N.D. (2007). *Quantum computer science*. Cambridge University Press. [\*\*, II]
- Mitchell, J.C. (2003). *Concepts in programming languages*. Cambridge University Press. [\*\*\*, IB]
- Mitzenmacher, M. & Upfal, E. (2005). *Probability and computing: randomized algorithms and probabilistic analysis*. Cambridge University Press. [\*\*, IB, II]
- Mogensen, T. Æ. (2011). *Introduction to compiler design*. Springer. ISBN 9780857298287. Available at <http://www.diku.dk/~torbenm/Basics>. [\*\*, IB]
- Muchnick, S. (1997). *Advanced compiler design and implementation*. Morgan Kaufmann. [\*\*, II]
- Nielsen, M.A. & Chuang, I.L. (2010). *Quantum computation and quantum information*. Cambridge University Press (2nd ed.). [\*\*\*, II]
- Nielson, F., Nielson, H.R. & Hankin, C.L. (1999). *Principles of program analysis*. Springer. [\*\*\*, II]
- O'Keefe, R. (1990). *The craft of Prolog*. MIT Press. [\*, IB]
- Odersky, M. (2008). *Scala by example*. Programming Methods Laboratory, EPFL. [\*\*, IB]
- Okasaki, C. (1998). *Purely functional data structures*. Cambridge University Press. [\*\*, IA]
- Oppenheim, A.V. & Schaffer, R.W. (2007). *Discrete-time digital signal processing*. Prentice Hall (3rd ed.). [\*\*, II]
- Oppenheim, A.V. & Willsky, A.S. (1997). *Signals and systems*. Prentice Hall. [\*\*, IB]
- Osterwalder, A. & Pigneur, Y. (2010). *Business model generation: a handbook for visionaries, game changers, and challengers*. Wiley. ISBN 9780470876411 [\*, II]
- Overton, M.L. (2001). *Numerical computing with IEEE floating point arithmetic*. SIAM. [\*\*, IA]
- Paar, Ch. & Pelzl, J. (2010). *Understanding cryptography*. Springer. [\*\*\*, IB]

- Papadimitriou, Ch.H. (1994). *Computational complexity*. Addison-Wesley. [\*\*\*, IB]
- Patterson, D. & Hennessy, J. (2014). *Computer organisation and design*. Morgan Kaufmann (5th ed. or earlier editions). ISBN 9780124077263 [\*\*, IA, IB]
- Paulson, L.C. (1996). *ML for the working programmer*. Cambridge University Press (2nd ed.). [\*\*\*, IA]
- Peterson, L.L. & Davie, B.S. (2011). *Computer networks: a systems approach*. Morgan Kaufmann (5th ed.). ISBN 9780123850591 [\*\*, IB]
- Pierce, B.C. (2002). *Types and programming languages*. MIT Press. ISBN 0262162091 [\*\*\*, IB, II]
- Pierce, B.C. (2005). *Advanced topics in types and programming languages*. MIT Press. ISBN 0262162288 [\*\*, II]
- Pinker, S. (1994). *The language instinct*. Penguin. [\*, II]
- Pinkus, A. & Zafrany, S. (1997). *Fourier series and integral transforms*. Cambridge University Press. [\*\*\*, IB]
- Poole, D. L. & Mackworth, A. K. (2010). *Artificial intelligence: foundations of computational agents*. Cambridge University Press. [\*\*, IB]
- Poundstone, W. (1992). *Prisoner's dilemma*. Anchor Books. [\*, IB]
- Pratt, T.W. & Zelkowitz, M.V. (2001). *Programming languages: design and implementation*. Prentice Hall (4th ed.). [\*\*, IB]
- Preece, J., Rogers, Y. & Sharp, H. (2015). *Interaction design*. Wiley (4th ed.). ISBN 9781119020752 [\*, IA]
- Reason, J. (2008). *The human contribution*. Ashgate Publishing. [\*, IB]
- Reinhard, E., et. al. (2010). *High dynamic range imaging*. Morgan Kaufmann (2nd ed.). ISBN 9780123749147 [\*\*, II]
- Robbins, A. (2005). *Unix in a nutshell*. O'Reilly (4th ed.). [\*\*, IB]
- Rogers, D.F. & Adams, J.A. (1990). *Mathematical elements for computer graphics*. McGraw-Hill (2nd ed.). [\*\*, II]
- Rosen, K.H. (2012). *Discrete mathematics and its applications*. McGraw-Hill (7th ed.). ISBN 9780071315012 [\*\*\*, IA]
- Ross, S.M. (2002). *Probability models for computer science*. Academic Press. [\*\*\*, IB, II]
- Russell, S. & Norvig, P. (2010). *Artificial intelligence: a modern approach*. Prentice Hall (3rd ed.). [\*\*\*, IB, II]
- Salomon, D. (2002). *A guide to data compression methods*. Springer. [\*\*, II]
- Schiller, J. (2003). *Mobile communications*. Pearson (2nd ed.). [\*\*\*, II]
- Schneier, B. (1995). *Applied cryptography: protocols, algorithms, and source code in C*. Wiley (2nd ed.). [\*\*, II]
- Schon, D.A. (1990). *Educating the reflective practitioner*. Jossey-Bass. [\*, IA]
- Schwartz, R.L., Foy, B.D. & Phoenix, T. (2011). *Learning Perl*. O'Reilly (6th ed.). [\*\*, IB]
- Scott, M.L. (2016). *Programming language pragmatics*. Morgan Kaufmann (4th ed.). ISBN 9780124104099 [\*\*\*, IB]

- Seabright, P. (2005). *The company of strangers*. Princeton. [\* , IB]
- Sedgewick, R. (2004). *Algorithms in Java* vol. 2 (note that C and C++ editions are also available and are equally good). Addison-Wesley. ISBN 0-201-36121-3. [\*\*\*, IB]
- Sedgewick, R. & Wayne, K. (2011). *Algorithms*. Addison-Wesley (4th ed.). ISBN 9780321573513. [\*\*, IA]
- Shapiro, C. & Varian, H. (1998). *Information rules*. Harvard Business School Press. [\*\*\*, IB, II]
- Shapiro, L. & Stockman, G. (2001). *Computer vision*. Prentice Hall. [\*\*\*, II]
- Shirley, P. & Marschner, S. (2009). *Fundamentals of computer graphics*. Peters. [\*\*\*, II]
- Shreiner, D., et. al. (2016). *OpenGL programming guide*. Addison-Wesley (9th ed.). ISBN 9780134495491 [\*\*, IA]
- Silberschatz, A., Peterson, J.L. & Galvin, P.C. (2014). *Operating systems concepts*. Wiley (9th ed.). ISBN 9781118093757 [\*\*, IA]
- Sipser, M. (1997). *Introduction to the theory of computation*. PWS. [\*\*, IB]
- Slater, M., Steed, A. & Chrysanthou, Y. (2002). *Computer graphics and virtual environments: from realism to real-time*. Addison-Wesley. [\*\*\*, IB, II]
- Solomon, D. & Russinovich, M. (2000). *Inside Windows 2000*. Microsoft Press (3rd ed.). [\*\*, IA]
- Standage, T. (1999). *The Victorian Internet*. Phoenix Press. [\* , II]
- Stein, J. (2000). *Digital signal processing – a computer science perspective*. Wiley. [\*\*, II]
- Sterling, L. & Shapiro, E. (1994). *The art of Prolog*. MIT Press (2nd ed.). [\*\*, IB]
- Stevens, W.R. & Fall, K.R. (2012). *TCP/IP illustrated, vol. 1: the protocols*. Addison-Wesley (2nd ed.). ISBN 9780321336316 [\*\*, II]
- Stevens, W.R., Fenner, B. & Rudoff, A.M. (2003). *UNIX network programming, Vol.I: The sockets networking API*. Prentice Hall (3rd ed.). [\*\*, IB]
- Stinson, D.R. (2005). *Cryptography: theory and practice*. Chapman & Hall (3rd ed.). [\*\*, II]
- Stroustrup, B. (1994). *The design and evolution of C++*. Addison-Wesley. [\*\*, IB]
- Stroustrup, B. (2014). *Programming — principles and practice using C++*. Addison-Wesley (2nd ed.). ISBN 9780321992789 [\*\*, IB]
- Sudkamp, T.A. (2005). *Languages and machines*. Addison-Wesley (3rd ed.). [\*\*, IB]
- Sutton, R.S. & Barto, A.G. (1998). *Reinforcement learning: an introduction*. MIT Press. [\* , II]
- Tanenbaum, A.S. (1990). *Structured computer organisation*. Prentice Hall (3rd ed.). [\*\*, IA]
- Tanenbaum, A.S. & van Steen, M. (2002). *Distributed systems*. Prentice Hall. [\*\*, IB]
- Tennent, R. (1991). *Semantics of programming languages*. Prentice Hall. [\*\*, II]
- Ullman, J. & Widom, J. (1997). *A first course in database systems*. Prentice Hall. [\*\*\*, IB]

- Varian, H. (1999). *Intermediate microeconomics – a modern approach*. Norton (9th ed). ISBN 9780393920772 [\*\*, IB]
- Velleman, D.J. (1994). *How to prove it (a structured approach)*. Cambridge University Press. [\*\*\*, IA]
- Watt, A. (1999). *3D Computer graphics*. Addison-Wesley (3rd ed). [\*\*, II]
- Weste, N.H.E. & Harris, D. (2011). *Integrated circuit design*. Addison-Wesley (4th ed.). ISBN 9780321696946 [\*, IA]
- Wilhelm, R. (1995). *Compiler design*. Addison-Wesley. [\*\*, II]
- Winskel, G. (1993). *The formal semantics of programming languages*. MIT Press. [\*\*, IB, II]
- Wolf, W. (2009). *Modern VLSI design (System-on-chip design)*. Pearson Education (4th ed.). [http://www.csit-sun.pub.ro/courses/vlsi/Modern\\_VLSI\\_Design.pdf](http://www.csit-sun.pub.ro/courses/vlsi/Modern_VLSI_Design.pdf) [\*\*, II]
- Report of the inquiry into the London Ambulance Service*  
(SW Thames RHA, 40 Eastbourne Terrace, London W2 3QR, February 1993).  
<http://www.cs.ucl.ac.uk/staff/A.Finkelstein/las.html> [\*, IB]