Sähkötekniikan ja elektroniikan oppikirjoja

Literature used as textbooks and background material on my courses. Varsinaiset kirjallisuusviitteet on sijoitettu asianomaisiin kirjan kohtiin alaviitteiksi. Versio 25.11.2005.

Sähkötekniikan ja elektroniikan yleisteoksia (General EE)

Useful textbooks for the course *S-55.1100 Sähkötekniikka ja elektroniikka*.

Silvonen: *Sähkötekniikka ja elektroniikka*, Otatieto, 2004 & 2003, 511 s.

Hughes: *Electrical & electronic technology*, Pearson Education, 2005, 936 s.

Hambley: *Electrical engineering, principles & applications*, Pearson Education, 2005, 880 s. + 2 CD.

Storey: *Electrical & electronic systems*, Pearson Education, 2004, 588 s.

Rizzoni: *Principles and applications of electrical engineering*, McGraw-Hill 2003, 1022 s.

Thomas & Rosa: *The Analysis and design of linear circuits*, Prentice-Hall 1998, 966 s. + Appendix.

Storey: *Electronics, a systems approach*, Addison-Wesley, 1998, 672 s.

Bobrow: *Fundamentals of electrical engineering*, Oxford University Press 1996, 1163 s.

Boylestad & Nashelsky: *Electronics, a survey of electrical engineering principles*, Prentice-Hall, 1996, 624 s.

Cogdell: *Foundations of electrical engineering*, Prentice-Hall, 1996, 944 s.

Irwin & Kerns: *Introduction to electrical engineering*, Prentice-Hall 1995, 780 s.

Warnes: *Electronic and electrical engineering, principles and practice*, Macmillan Press, 1994, 575 s.

Peebles & Giuma: *Principles of electrical engineering*, McGraw-Hill 1991, 757 s.

Carlson & Gisser: *Electrical engineering, concepts and applications*, Addison-Wesley, 1990, 776 s.

Piirianalyysi (Circuit Analysis)

Nilsson & Riedel: *Electric circuits*, Prentice-Hall, 2000,1996, 1030 s.

Cook: *Introductory DC/AC circuits*, Prentice-Hall, 1999, 824 s. + CD.

Dorf & Svoboda: *Introduction to electric circuits*, John Wiley & Sons, 1999, 809 s.

Floyd: *Electric circuits fundamentals*, Prentice-Hall, 1998, 651 s.

Irwin & Wu: *Basic engineering circuit analysis*, Prentice-Hall, 1998, 976 s.

Boylestad: *Introductory circuit analysis*, Prentice-Hall, 1997, 1152 s.

Floyd: *Principles of electric circuits*, Prentice-Hall, 1997, 974 s.

Johnson & Johnson, Hilburn, Scott: *Electric circuit analysis*, Prentice-Hall, 1997, 848 s.

Stanley: *Network analysis with applications*, Prentice-Hall, 1997, 690 s.

Kraus: *Circuit analysis*, West Publishing Company, 1991, 859 s.

Elektroniikka, yleisteoksia (General Electronics)

Silvonen, Tiilikainen & Helenius: *Analogiaelektroniikka*, Edita, 2004 & 2003, 294 s.

Floyd: *Electronic devices, electron flow version*, Pearson Education, 2005, 973 s. + CD.

Cook: *Electronics, a complete course*, Pearson Education, 2004, 1037 s. + CD.

Boylestad & Nashelsky: *Electronic devices and circuit theory*, Prentice-Hall, 2002, 1020 s. + CD.

Crecraft & Gergely: *Analog electronics: circuits, systems and signal processing*, Butterworth-Heinemann, 2002, 425 s.

Spencer & Ghausi: *introduction to electronic circuit design*, Prentice-Hall, 2001

Hambley: *Electronics*, Prentice-Hall, 2000, 888 s.

Floyd: *Electronic devices*, Prentice-Hall, 1999, 953 s. + liitteet + CD.

Floyd & Buchla: *Fundamentals of analog circuits*, Prentice-Hall, 1999, 903 s.

Sedra & Smith: *Microelectronic circuits*, Oxford University Press, 1998, 1237 s. + liitteet + CD (Salkkareista tuttu!).

Horowitz & Hill: *The art of electronics*, Cambridge University Press, 1989, 1125 s.

Millman & Grabel: *Microelectronics*, McGraw-Hill, 1987, 1001 s.

Suppea-alaisempia elektroniikan oppikirjoja (Special Topics)

Valtonen & Virtanen: *Passiiviset suodattimet*, Yliopistopaino, 2004, 318 s.

Lehtovuori, Costa, Honkala, Kallio, Kivikero & Virtanen: *Piirisynteesi*, Yliopistopaino, 2004, 178 s.

Jokinen, Virtanen, Aaltonen, Costa, Roos, Starck & Valtonen: *Piirisuunnittelun numeeriset menetelmät*, Otatieto, 1998, 155 s.

Floyd & Buchla: *The science of electronics, digital*, Pearson Education, 2005, 472 s.

Mohan, Undeland & Robbins: *Power Electronics. Converters, applications, and design*, John Wiley & Sons, 2003, 802 s.

Vlach & Singhal: *Computer methods for circuit analysis and design*, Van Nostrand Reinhold Company, 1983, 594 s.

Peebles: *Probability, random variables, and random signal principles*, McGraw-Hill, 2001, 462 s.

Mano & Kime: *Logic and computer design fundamentals*, Prentice Hall, 2000, 652 s. + 2 CD.

Inan & Inan: *Engineering electromagnetics*, Addison-Wesley, 1999, 776 s. + liitteet.

Cook: *Introductory digital electronics*, Prentice Hall, 1998, 719 s.

Blake: *Basic electronic communication*, West Publishing Company, 1993, 829 s. + liitteet.

Miller: *Introduction to digital and data communications*, West Publishing Company, 1992, 435 s.

Sze: *Physics of semiconductor devices*, John Wiley & Sons., Inc., 1981, 868 s.

Lancaster: *Active-filter cookbook*, Howard W. Sams & Co., Inc., 1978, 240 s.

Gray, DeWitt, Boothroyd & Gibbons: *Physical electronics and circuit models of transistors*, John Wiley & Sons., Inc., 1964, 262 s.