

APPENDIX D

Useful References and Links to Relevant Web Sites

1. <http://microanalyst.mikroanalytik.de/info1.phtml> - explains main processes in an anode of the x-ray tube under the beam of electrons.
2. http://amptek.com/pdf/characteristic_xrays.pdf - a clear and concise description of generating characteristic x-rays and understanding the characteristic x-ray spectrum.
3. Eric M. Gullikson et al. X-Ray Data Booklet. Lawrence Berkeley National Laboratory. [457 pages] <http://xdb.lbl.gov/xdb.pdf> [2.87MB] - electron binding energies; energies of main characteristic lines; fluorescence yield; relative intensities for main lines (use to calculate transition probability p_{tr});
4. <http://physics.nist.gov/PhysRefData/FFast/html/form.html> – atomic weight; density; absorption edges; coherent + incoherent, attenuation (total) and absorption (photoelectric) cross-sections; K-shell photoelectric cross-section (may be used to calculate absorption jump J_s).
5. <http://www.csrii.iit.edu/periodic-table.html> - periodic table with edge energies, edge jumps, fluorescence yield and other constants for quantitative analysis with energy-dispersive XRF method (EDXRF).
6. http://www.icdd.com/resources/axa/vol47/v47_01.pdf – application of EDXRF in arts and archeology.