



All experiments described in this handbook can be performed with the “COBRA-Interface” which has following specific features:

The versatile high performance computer interface basic unit can be extended by means of a series of supplementary modules.

- Intelligent, microprocessor controlled interface for the performance of measurements and experiments in physics, chemistry, biology and technology
- Can be connected directly to any modern computer over the standard serial interface (RS 232) without supplementary cards and without opening the computer housing
- Replaces devices such as 4-channel plotters, xyt-plotters, transient plotters, digital counters, temperature, conductivity, pH, pressure measuring devices, etc.
- No load on the computer power supply due to the interface, thus excluding computer failures due to partial power supply overloads
- High performance, adjustable direct voltage output to provide power for experiments and for programmable power outputs
- Continuous extension of the series of modules and of the software library keeps on providing new applications for the COBRA user

This handbook specially covers experiments which may be performed in conjunction with the COBRA GM counter tube and the X-ray unit.

This HANDBOOK can be purchased separately. It contains the experiments listed below. Please ask for a complete equipment list. Ref No 25412

Handbook • COBRA – X-ray Spectroscopy • No. 01259.02 • 9 described Experiments

CBX 1 (12156)
Characteristic radiation of copper

CBX 2 (12157)
Characteristic radiation of copper in higher order diffraction

CBX 3 (12158)
Bremsstrahlung, Duane and Hunt's law of a displacement and determination of Planck's quantum of action

CBX 4 (12159)
Monochromatization by Bragg reflection

CBX 5 (12160)
Monochromatization by absorption

CBX 6 (12161)
K-edge absorption of X-rays

CBX 7 (12162)
Moseley's law and Rydberg's constant

CBX 8 (12163)
L-edge absorption

CBX 9 (12164)
Compton scattering



Characteristic radiation of copper in higher order diffraction (CBX 2)