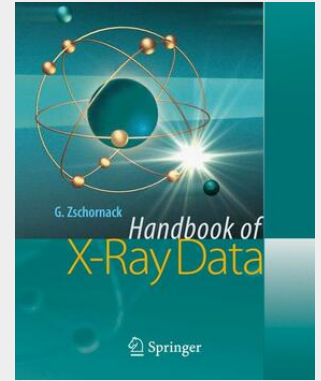


## Handbook of X-Ray Data

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This is the only handbook available on X-ray data. In a concise and informative manner, the most important data connected with the emission of characteristic X-ray lines are tabulated for all elements up to  $Z = 95$  (Americium). The tabulated data are characterized and, in most cases, evaluated. Furthermore, all important processes and phenomena connected with the production, emission and detection of characteristic X-rays are discussed.

Today, with energy-dispersive and wavelength-dispersive techniques, modern methods in X-ray with matter and of the most common detection analysis are used in a wide range of applications, as systems for the detection of X-rays are summarized for example in X-ray fluorescence analysis, electron microbeam analysis, X-ray fluorescence analysis with individual sets of experimental atomic data, charged particles, and so on. In many applications – known from the literature, are compared between for instance in metallurgy, mining, microelectronics, themselves and with theoretical results. In this way medicine, biology, environmental protection, chemistry it becomes possible to reach conclusions about the history, archeology, X-ray astronomy, and so on – fast consistency of the data sets to be used. In describing and effective information about the probes under investigation can be obtained by simultaneous multi-energy- and wavelength-dispersive X-ray spectrometry. Therefore, it is of outstanding importance for every analyst to have a carefully edited collection of basic atomic data. This is also true in and for transition line identification is given.



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