



Electron Diffraction and High-Resolution Electron Microscopy of Mineral Structures

Victor A. Drits

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The decision of Springer-Verlag to publish this book in English came as a pleasant surprise. The fact is that I started writing the first version of the book back in 1978. I wished to attract attention to potentialities inherent in selected-area electron diffraction (SAED) which, for various reasons, were not being put to use. By that time, I had at my disposal certain structural data on natural and synthetic minerals obtained using SAED and high-resolution electron microscopy (HREM), and this stimulated my writing this book. There were several aspects concerning these data that I wished to emphasize. First, it was mostly new and understudied minerals that possess the peculiar structural features studied by SAED and HREM. This could interest mineralogists, crystallo chemists, and crystallographers. Second, the results obtained indicated that, under certain conditions, SAED could be an effective, and sometimes the only possible, method for structure analysis of minerals. This inference was of primary importance, since fine dispersion and poor crystallinity of numerous natural and synthetic minerals makes their structure study by conventional diffraction methods hardly possible. Third, it was demonstrated that in many cases X-ray powder diffraction analysis of dispersed minerals ought to be combined with SAED and local energy dispersion analysis. This was important, since researchers in structural mineralogy quite often ignored, and still ignore even the simplest information which is readily available from geometrical analysis of SAED patterns obtained from microcrystals.



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