



# Fundamentals of Powder Diffraction and Structural Characterization of Materials

*Vitalij Pecharsky, Peter Zavalij*

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Fundamentals of Powder Diffraction and Structural Characterization of Materials provides an in-depth introduction to the theories and applications of the powder diffraction method for structure determination. The emphasis is placed on powder diffraction data collected using conventional x-ray sources, which remain primary tools for thousands of researchers and students in their daily experimental work. The book is divided into two parts: chapters one through three give essential theoretical background, while chapters four through seven guide the reader through practical aspects of extracting structural information from powder data. The book is supplemented by a compact disk containing experimental data collected from a variety of materials that are used as examples and in the problems offered at the end of every chapter. In addition color electronic versions of some 300 illustrations found throughout the book will be included.



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