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Fundamentals of Powder Diffraction and Structural Characterization of Materials, Second Edition

By Vitalij Pecharsky

Springer. Paperback. Book Condition: New. Paperback. 744 pages. Dimensions: 9.2in. x 6.1in. x 1.4in. A little over ve years have passed since the rst edition of this book appeared in print. Seems like an instant but also eternity, especially considering numerous developments in the hardware and software that have made it from the laboratory test beds into the real world of powder diffraction. This prompted a revision, which had to be beyond cosmetic limits. The book was, and remains focused on standard laboratory powder diffractometry. It is still meant to be used as a text for teaching students about the capabilities and limitations of the powder diffraction method. We also hope that it goes beyond a simple text, and therefore, is useful as a reference to practitioners of the technique. The original book had seven long chapters that may have made its use as a text - convenient. So the second edition is broken down into 25 shorter chapters. The rst fteen are concerned with the fundamentals of powder diffraction, which makes it much more logical, considering a typical 16-week long semester. The last ten ch- ters are concerned with practical examples of structure solution and refinement, which were preserved from...



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