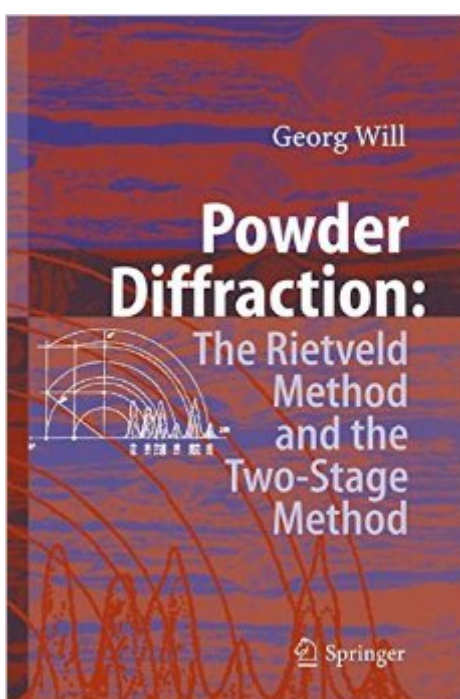


The book was found

Powder Diffraction: The Rietveld Method And The Two Stage Method To Determine And Refine Crystal Structures From Powder Diffraction Data



Synopsis

Crystal structure analysis from powder diffraction data has attracted considerable and ever growing interest in the last decades. X-ray powder diffraction is best known for phase analysis (Hanawalt files) dating back to the 30s. In the late 60s the inherent potential of powder diffraction for crystallographic problems was realized and scientists developed methods for using powder diffraction data at first only for the refinement of crystal structures. With the development of ever growing computer power profile fitting and pattern decomposition allowed to extract individual intensities from overlapping diffraction peaks opening the way to many other applications, especially to ab initio structure determination. Powder diffraction today is used in X-ray and neutron diffraction, where it is a powerful method in neutron diffraction for the determination of magnetic structures. In the last decade the interest has dramatically improved. There is hardly any field of crystallography where the Rietveld, or full pattern method has not been tried with quantitative phase analysis the most important recent application.

Book Information

Hardcover: 224 pages

Publisher: Springer; 2006 edition (December 7, 2005)

Language: English

ISBN-10: 3540279857

ISBN-13: 978-3540279853

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,070,986 in Books (See Top 100 in Books) #174 in Books > Science & Math > Chemistry > Crystallography #388 in Books > Science & Math > Chemistry > Inorganic #424 in Books > Science & Math > Earth Sciences > Mineralogy

[Download to continue reading...](#)

Powder Diffraction: The Rietveld Method and the Two Stage Method to Determine and Refine Crystal Structures from Powder Diffraction Data Minerals and Rocks: Exercises in Crystal and Mineral Chemistry, Crystallography, X-ray Powder Diffraction, Mineral and Rock Identification, and Ore Mineralogy Wicca Crystal Magic: A Beginner's Guide to Practicing Wiccan Crystal Magic, with Simple Crystal Spells (Wicca Books Book 4) Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business Leveraging the Power of Data Analytics, Data

Science, ... (Hacking Freedom and Data Driven Book 2) Data Architecture: A Primer for the Data Scientist: Big Data, Data Warehouse and Data Vault Fundamentals of Powder Diffraction and Structural Characterization of Materials, Second Edition Drug Safety Data: How to Analyze, Summarize, and Interpret to Determine Risk The Data Revolution: Big Data, Open Data, Data Infrastructures and Their Consequences Big Data For Beginners: Understanding SMART Big Data, Data Mining & Data Analytics For improved Business Performance, Life Decisions & More! Stage and Screen Makeup: A Practical Reference for Actors, Models, Makeup Artists, Photographers, Stage Managers, and Directors Handel on the Stage (Composers on the Stage) Masterpieces of Kabuki: Eighteen Plays on Stage (Kabuki Plays on Stage) Crystal Enlightenment: The Transforming Properties of Crystals and Healing Stones (Crystal Trilogy, Vol. 1) Crystal Power, Crystal Healing Kratom: The Truth About Mitragyna Speciosa: An Introductory Guide to Capsules, Powder, Extract, And The Full Effects (Ketum, Kratom, Kratom Capsules, Kratom Powder, Kratom Extract) Java Software Structures: Designing and Using Data Structures Java Software Structures: Designing and Using Data Structures (3rd Edition) Starting Out with Java: From Control Structures through Data Structures (2nd Edition) (Gaddis Series) Starting Out with Java: From Control Structures through Data Structures (3rd Edition) Data Structures and Algorithms Made Easy: Data Structure and Algorithmic Puzzles

[Dmca](#)