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# Quantitative X Ray Diffractometry

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### **Quantitative X Ray Diffractometry**

Quantitative X-ray analysis provides one way to resolve this phase problem: mixing the material in question with a material of known structure yields interferences that can be analyzed to yield the unknown phases. Invented in 1916, but little used at the time, the technique has seen a recent revival due to the development of extremely precise X-ray diffractometers coupled with powerful computers.

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### **Quantitative X-Ray Diffractometry | Lev S. Zevin | Springer**

Quantitative x-ray diffractometry. Authors; Authors and affiliations; R. Jenkins; J. L. de Vries; Chapter. 100 Downloads; Abstract. Very often the quantity of a compound has to be determined in a complex mineral, the composition and absorption coefficients of which are unknown. To correct for these unknown facts, the attenuation of a diffraction line arising from the bottom of the sample ...

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A quantitative simultaneous determination method by X-ray powder diffractometry is described for calcium sulfate and calcium carbonate in airborne dusts. In order to eliminate the mutual interference among diffraction peaks, and to avoid the presence of the hydration isomers of calcium sulfate, dust samples were heated at 350°C for 2 h. To reduce

### **Quantitative Determination by X-Ray Diffractometry of ...**

Quantitative x-ray diffractometry. Authors; Authors and affiliations; R. Jenkins; J. L. de Vries; Chapter. 19 Downloads; Part of the Philips Technical Library book series (PTL) Abstract. Very often the quantity of a compound has to be determined in a complex mineral, the composition and absorption coefficients of which are unknown. To correct for these unknown facts, the attenuation of a ...

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### **Quantitative X-ray diffractometry of carbonate rocks ...**

Particle statistics in quantitative X-ray diffractometry relates to the number of particles (crystallites) contributing to the diffracted intensity for a given line. Variations in line intensity between replicate preparations of the same sample arise from statistical variations in the number of diffracting particles. The uncertainty in line intensity, and hence in quantitative estimates of analyte concentration, is termed the particle statistics error. A theoretical estimate of the error for ...

### **Particle statistics in quantitative X-ray diffractometry ...**

A quantitative simultaneous determination method by X-ray powder diffractometry is described for calcium sulfate and calcium carbonate in airborne dusts. In order to eliminate the mutual interference among diffraction peaks, and to avoid the presence of

the hydration isomers of calcium sulfate, dust samples were heated at 350°C for 2 h. To reduce the errors due to the difference in crystallinity between the standard materials and the samples, the synthesized calcium sulfate anhydrate ...

### **Quantitative Determination by X-Ray Diffractometry of ...**

La diffractométrie de rayons X (DRX, on utilise aussi souvent l'abréviation anglosaxonne XRD pour X-ray diffraction) est une technique d'analyse basée sur la diffraction des rayons X sur la matière. La diffraction n'ayant lieu que sur la matière (La matière est la substance qui compose tout corps ayant une réalité tangible. Ses trois états les plus communs sont l'état solide, l'état ...

### **Diffractométrie de rayons X : définition et explications**

La cristallographie aux rayons X, radiocristallographie ou diffractométrie de rayons X (DRX, on utilise aussi souvent l'abréviation anglaise XRD pour X-ray diffraction) est une technique d'analyse fondée sur la diffraction des rayons X par la matière, particulièrement quand celle-ci est cristalline. La diffraction des rayons X est une diffusion élastique, c'est-à-dire sans perte d ...

### **Cristallographie aux rayons X — Wikipédia**

La diffractométrie de rayons X (DRX, on utilise aussi souvent l'abréviation anglaise XRD pour X-ray diffraction) est une technique d'analyse fondée sur la diffraction des rayons X sur la matière. La diffraction n'ayant lieu que sur la matière cristalline, on parle aussi de radiocristallographie. Pour les matériaux non-cristallins, on parle de diffusion.

### **Diffractométrie de rayons X : définition de ...**

The quantitative mineralogical analysis of small samples (less than 20 mg) of china clay has been investigated using x ray diffractometry to determine kaolinite, mica, quartz, and feldspar. A method has been developed and applied to the quantitative analysis of airborne dust samples and of other small discrete samples.

### **Quantitative mineralogical analysis of small samples of ...**

A grain size of <10 micron is required for quantitative X-ray diffraction (Rietveld). To avoid amorphisation of the sample during grinding, wet milling is done in a McCrone Micronizing mill. Before grinding in the McCrone Mill, the samples are crushed and passed through a 500 micron sieve. Take representative amounts of sample (50-100 g).

### **Sample Preparation for Quantitative X-Ray Diffraction (XRD) ...**

Mixtures of various compositions were prepared and subjected to X-ray powder diffractometry (XRD). The XRD pattern of each mixture was analyzed by the Rietveld method and at the end of the refinement, the goodness of fit was evaluated. When the analyte concentration was high ( $\geq 20\%$ ), the relative error in the determination was  $\leq \pm 5\%$ .

### **Quantitative analyses of complex pharmaceutical mixtures ...**

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### **QiNi [ ] - Quantitative X-ray diffractometry**

Quantitative X-Ray Diffractometry. [Lev S Zevin; Giora Kimmel; Inez Mureinik] -- One of

the most important techniques for determining the atomic structure of a material is X-ray diffraction. One of the great problems of the technique, however, is the fact that only the intensity ...

### **Quantitative X-Ray Diffractometry (eBook, 1995) [WorldCat.org]**

X-ray powder diffraction is the most suitable method to identify and quantify crystalline materials. For a direct determination of non-fibrous SiC with X-ray diffraction (XRD), we took a particular care for the selection of a diffraction line of SiC.

### **Quantitative Determination of Airborne Respirable Non ...**

Quantitative X-ray diffraction, normative calculation, and whole-rock chemical analysis have been compared for Permo-Triassic quartz-lithic to litho-feldspathic sandstones from eastern Australia. The quantitative XRD technique provides mineralogical percentages that correlate well with the chemical composition of the sandstones, and also with most of the mineral percentages derived from normative calculation. The need for assumptions on potassium distribution between minerals provides a ...

### **Quantitative mineralogy of sandstones by X-ray ...**

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