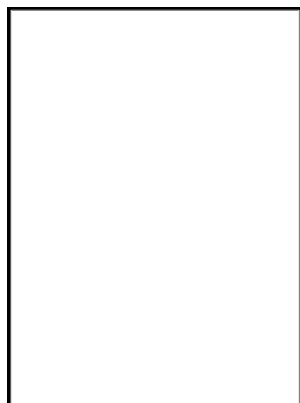


Electron-probe microanalysis of irradiated materials

Institution of Mining and Metallurgy - Electron probe microanalysis: A review of recent developments and applications in materials science and engineering



Description: -

-Electron-probe microanalysis of irradiated materials

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Electron microprobe

Each alloy contains high-Zr inclusions surrounded by a high-actinide matrix.

LA

Gamma counting of 61 individual particles indicated no particles with anomalously low fission product retention. Over the past decades, extensive studies have been conducted to evaluate the fission product release, diffusion on Ag, Pd and Cd in the SiC layer and the TRISO coating system, and post-safety-test performance. Aurélien Moy is currently a Postdoctoral Fellow at the Geoscience Department, University of Wisconsin-Madison, WI, USA, where his research focuses on the development of new methods for quantification at low accelerating voltages by EPMA using soft X-rays.

Materials and Fuels Complex

In this review, we give an overview of the most significant methodological developments of EPMA that have occurred in the last three decades, including the incorporation of large area diffractors, field-emission guns, high-spectral resolution X-ray grating spectrometers, silicon drift detectors, as well as more powerful Monte Carlo simulations, which have opened a wide range of new possibilities for the characterization of materials using EPMA.

Microbeam analysis of irradiated materials: practical aspects

He has taught an electron microprobe class since 1994 Geo 777 whose lecture slides are widely used around the world.

ELECTRON PROBE MICROANALYSIS OF IRRADIATED AND 1600°C SAFETY

One was developed by and Richard Baker at. No SiC phase transformations were observed and no debonding of the SiC-IPyC interlayer as a result of irradiation was observed for the samples investigated. .

ELECTRON PROBE MICROANALYSIS OF IRRADIATED AND 1600°C SAFETY

Then, the article presents the difficulties encountered during the sample preparation and the analysis mainly due to the radioactive background.

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