

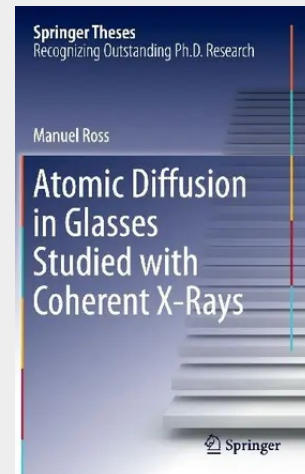
Ross

Atomic Diffusion in Glasses Studied with Coherent X-Rays

This thesis provides the first successful study of jump diffusion processes in glasses on the atomic scale, utilizing a novel coherent technique. This new method, called atomic-scale X-ray Photon Correlation Spectroscopy or aXPCS, has only recently been proven to be able to capture diffusion processes with atomic resolution in crystal systems.

With this new toolkit for studying atomic diffusion in amorphous systems, new insight into basic processes in a wide range of technically relevant materials, like fast ionic conductors, can be obtained.

This thesis provides the first successful study of jump diffusion processes in glasses on the atomic scale, utilizing a novel coherent technique. This new method, called atomic-scale X-ray Photon Correlation Spectroscopy or aXPCS, has only recently been proven to be able to capture diffusion processes with atomic resolution in crystal systems. With this new toolkit for studying atomic diffusion in amorphous systems, new insight into basic processes in a wide range of technically relevant materials, like fast ionic conductors, can be obtained.



106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319286440

Medium: Buch

ISBN: 978-3-319-28644-0

Verlag: Palgrave Macmillan

Erscheinungstermin: 29.01.2016

Sprache(n): Englisch

Auflage: 1. Auflage 2016

Serie: Springer Theses

Produktform: Gebunden

Gewicht: 3259 g

Seiten: 111

Format (B x H): 160 x 241 mm

