Bruce / O'Hare / Walton

Local Structural Characterisation

Inorganic materials are at the heart of many contemporary real-world applications, in electronic devices, drug delivery, bio-inspired materials and energy storage and transport. In order to underpin novel synthesis strategies both to facilitate these applications and to encourage new ones, a thorough review of current and emerging techniques for materials characterisation is needed. Examining important techniques that allow investigation of the structures of inorganic materials on the local atomic scale, Local Structural Characterisation discusses: - Solid-State NMR Spectroscopy - X-Ray Absorption and Emission Spectroscopy - Neutrons and Neutron Spectroscopy - EPR Spectroscopy of Inorganic Materials - Analysis of Functional Materials by X-Ray Photoelectron Spectroscopy This addition to the Inorganic Materials Series provides a detailed and thorough review of these spectroscopic techniques and emphasises the interplay between chemical synthesis and physical characterisation.

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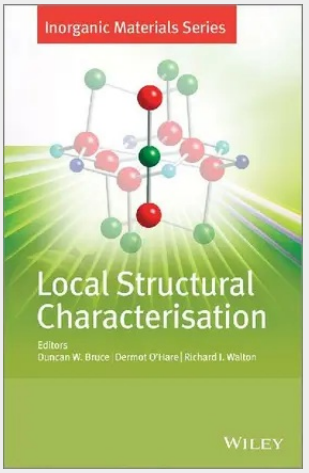

125,50 €
125,50 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9781119953203
Medium: Buch
ISBN: 978-1-119-95320-3
Verlag: Wiley
Erscheinungstermin: 14.10.2013
Sprache(n): Englisch
Auflage: 1. Auflage 2013
Produktform: Gebunden
Gewicht: 590 g
Seiten: 380
Format (B x H): 155 x 231 mm