X-Ray Imaging by Partially Coherent Synchrotron Light

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Reviews

Extensive guide! Its such a very good read. I really could comprehended almost everything out of this created e ebook. You will like how the writer write this ebook.
(Katherine Feil)

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VDM Verlag Dr. Müller E.K. Nov 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x14 mm. Neuware - The hard spectrum which is available on the BAMline at Berlin''s synchrotron BESSY offers the rare opportunity to perform high-resolution X-ray imaging experiments with a partially coherent beam. This thesis work reports on the development of a new tomography system, including Fresnel-propagated imaging, and its application to three specific materials science problems from the fields of engineering materials, biology and earth science: A) 2D and 3D images were recorded from a variety of aluminum-based alloys to characterize coarsening of particle agglomerates (at high solid volume fraction) in liquid solution, as well as rheological properties of semi-solid alloys. B) Dentin is the bulk material of teeth characterized by a quasi-parallel arrangement of micrometer-sized tubules which are believed to incarnate a natural mechanical design. C)Understanding rock fracture is one of the fundamental problems in earth science now reviewed in three dimensions. 216 pp. Deutsch.

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