Record Nr. UNINA9910830939603321 Advances in X-ray tomography for geomaterials [[electronic resource] /] **Titolo** / edited by Jacques Desrues, Gioacchino Viggiani, Pierre Besuelle Pubbl/distr/stampa London;; Newport Beach, CA,: ISTE, 2006 **ISBN** 1-280-84778-6 9786610847785 0-470-61218-5 0-470-39484-6 1-84704-610-X Descrizione fisica 1 online resource (454 p.) Collana ISTE;; v.118 Altri autori (Persone) DesruesJ (Jacques) ViggianiGioacchino **BesuellePierre** Disciplina 624.1/51 624.151 Soggetti Soil mechanics - Research - Data processing Tomography Concrete - Analysis Rocks - Analysis **Building materials - Testing** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Advances in X-ray Tomography for Geomaterials; Contents; Foreword; Keynote lectures; Micro-Characterization of Shearing in Granular Materials Using Computed Tomography; X-ray Micro CT for Studying Strain Localization in Clay Rocks under Triaxial Compression; Investigation of Engineering Properties of Man-made Composite Geomaterials with Micro-focus X-ray CT; X-ray Tomography as a Tool for Micromechanical Investigations of Cement and Mortar; X-ray Computed Tomography for Geotechnical Engineering; Methods and techniques Numerically enhanced Microtomographic Imaging Method Using a Novel Ring Artefact FilterSynchrotron X-Ray microtomography: a Hig

Resolution, Fast and Quantitative Tool for Rock Characterization;

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Accuracy of the Two Common Semi-Analytical Equations in Predicting Asphalt Permeability

## Sommario/riassunto

This book brings together a total of 48 contributions (including 5 keynote papers) which were presented at the 2nd International Workshop on the Application of X-ray CT for Geomaterials (GeoX 2006) held in Aussois, France, on 4-7 October, 2006. The contributions cover a wide range of topics, from fundamental characterization of material behavior to applications in geotechnical and geoenvironmental engineering. Recent advances of X-ray technology, hardware and software are also discussed. As such, this will be valuable reading for anyone interested in the application of X-ray CT to geomateria