Record Nr. UNINA9910142526403321 Low-grade metamorphism [[electronic resource] /] / [edited by] Martin **Titolo** Frey, Doug Robinson Pubbl/distr/stampa Oxford, England;; Malden, Mass.,: Blackwell Science, 1999 **ISBN** 1-282-37163-0 9786612371639 1-4443-1334-7 1-4443-1333-9 0-632-06332-7 Descrizione fisica 1 online resource (325 p.) Altri autori (Persone) FreyMartin <1940-> RobinsonDoug <1947-> Disciplina 552 552/.4 Soggetti Metamorphism (Geology) Geology Electronic books. 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 (p. 261-301) and index. Nota di contenuto Low-Grade Metamorphism; Contents; List of contributors; Preface; 1: Low-temperature metamorphism: an overview; 1.1 What is it?; 1.2 A decade of progress; 1.3 Very low-grade metamorphism in a global setting; 1.4 Does low-tempereture metamorphism matter?; 1.5 Mineral abbreviations; 2: Very low-grade metapelites: mineralogy, microfabrics and measuring reaction progress; 2.1 Metapelitic rock.; 2.1.1 Introduction; 2.1.2 Metapelitic zones and lithology; 2.1.3 Metastable equilibrium and clay mineral reaction progress; 2.2 Mineralogical relations; 2.2.1 Phyllosilicate reaction series 2.2.2 Smectite-I/S-illite-muscovite2.2.3 Smectite-corrensite-chlorite; 2.2.4 Kaolinite-pyrophyllite; 2.2.5 Berthierine; 2.3 Metapelitic microfabrics: 2.3.1 Introduction: 2.3.2 Mlcrofabrics of the late diagenetic zone; 2.3.3 The anchizone and slaty cleavage development; 2.3.4 The anchizone-epizone transition; 2.4 Measuring reaction progress; 2.4.1 X-ray diffraction techniques; 2.4.2 Transmission

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## Sommario/riassunto

Low-Grade Metamorphism explores processes and transformations in rocks during the early stages of metamorphic recrystallization. There has been little analysis and documentation of this widespread phenomenon, especially of the substantial and exciting advances that have taken place in the subject over the last decade. This book rectifies that shortfall, building on the foundations of Low-Temperature Metamorphism by Martin Frey (1987). The editors have invited contributions from an internationally acknowledged team of experts, who have aimed the book at advanced undergraduate and