

MICROTECTONICS Free



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AVAILABLE



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Deformation on the grain scale and deformation mechanisms are treated in Chapter 3. Chapters 4 to 7 form the core of the book and deal with the most commonly observed microstructures. In Chapter 8 some primary microstructures from igneous and sedimentary rocks are discussed, and in

Chapter 9 a brief outline is given of a new development in micro- tectonics which we called microgauges: structures that can be used to obtain quantitative data from deformed rocks. Chapter 10 describes a number of additional techniques other than optical microscopy. These techniques either use thin sections, or can be used in combination with optical microscopy to obtain additional data.

The descriptions are short but should allow the reader to decide if it is advantageous to use an unfamiliar technique, available outside the home department. Chapter 11 gives an overview of the current state of the art of experimental studies. Chapter 12 describes problems involved with sampling and preparation of thin sections, including the problem of the interpretation of three dimensional structures using two-dimensional sections. A glossary and index are given at the end of the book; the definitions in this glossary reflect our opinion on the meaning of the terminology as used at present. A number of boxes explaining subjects in more detail are present in several chapters. Preface VII Throughout the text, words written in italics indicate items that are introduced for the first time, most of which are explained in the glossary and can be found in the index.

Provenance of the photographed thin sections is given where known.

The scale of the photographs is given as a width of view. The accompanying CD contains full colour versions of all drawings and of many photographs in the book, animations of figures in the book and videos of deformation experiments, a number of additional colour photographs, figures from the boxes, an explanation on the use of the U-stage, the glossary and 35 photographs of examples of common problems in microtectonics meant to be used as interpretation exercises. The CD also contains a search option for figure captions and the glossary. Since all figures in the book are also on the CD, there is no separate reference for them in the text of the book. Where these show similar items as figures in the book, they have been given the same number. Hofmeister T. Ackermann H. Dill U. Passchier Publications Passchier Microtectonics G. Kaus H. Deckert Publications T. Baumann N. Kersten Publications F. Mertz Publications Dieter Mertz Y. Moulas I. This advanced textbook treats common microstructures such as foliations, porphyroblasts, veins, fringes and shear sense indicators.

The book mainly focusses on optical microscopy as a tool to study microstructures, but also describes other techniques such as EBSD and tomography. Many photographs and explanatory drawings clarify the text. The new edition, substantially revised throughout and extended, features two new chapters primary structures and experimental microstructures , 68 new figures, more than new references. Microtectonics has proven useful for self study of microstructures and as a manual for short- and one-semester courses. Details of the changes in the second edition - Newest developments in microtectonics have been included in all chapters so that all chapters have been revised and updated, e. The text fills a valuable niche, as many textbooks on structural geology do not discuss microscopic aspects of deformation The book is extremely well illustrated with some figures

The book explains basic principles in a simple form with considerable references, enabling the reader to obtain more in-depth information Randall Marrett marked it as to-read Apr 26, Aran Castro marked it as to-read May 17, There are no discussion topics on this book yet. About C. Books by C. Escape the Present with These 24 Historical Romances. You know the saying: There's no time like the present In that case, we can't Read more Trivia About Microtectonics. No trivia or quizzes yet. Welcome back.

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