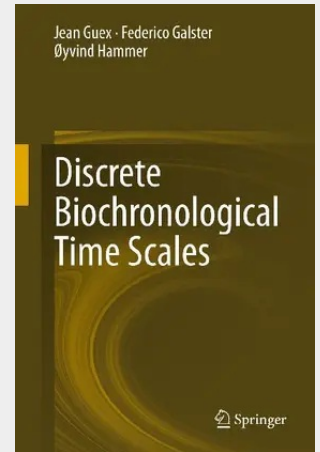


Discrete Biochronological Time Scales

The object of this book is to explain how to create a synthesis of complex biostratigraphic data, and how to extract from such a synthesis a relative time scale based exclusively on the fossil content of sedimentary rocks. Such a time scale can be used to attribute relative ages to isolated fossil-bearing samples. The book is composed of 10 chapters together with several appendices. It is a totally revised version of "Biochronological Correlations" published in 1991 and includes various new chapters. The book offers a solution for the theoretical problem of how fossils can be used to make reliable quantitative stratigraphic correlations in sedimentary geology. It also describes the use of highly efficient software along with several examples. The authors compare their theoretical model with 2 other relevant studies: probabilistic stratigraphy and constrained optimization (CONOP).

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319213255

Medium: Buch

ISBN: 978-3-319-21325-5

Verlag: Palgrave Macmillan

Erscheinungstermin: 28.09.2015

Sprache(n): Englisch

Auflage: 1. Auflage 2015

Produktform: Gebunden

Gewicht: 3967 g

Seiten: 160

Format (B x H): 160 x 241 mm

