

Luminescence

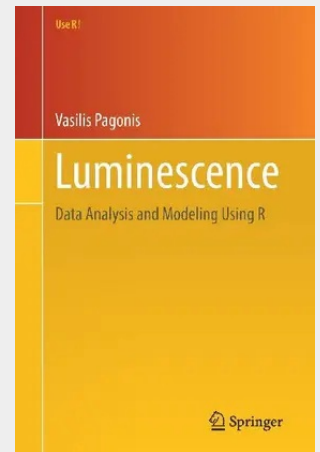
Data Analysis and Modeling Using R

This book covers applications of R to the general discipline of radiation dosimetry and to the specific areas of luminescence dosimetry, luminescence dating, and radiation protection dosimetry. It features more than 90 detailed worked examples of R code fully integrated into the text, with extensive annotations. The book shows how researchers can use available R packages to analyze their experimental data, and how to extract the various parameters describing mathematically the luminescence signals.

In each chapter, the theory behind the subject is summarized, and references are given from the literature, so that researchers can look up the details of the theory and the relevant experiments. Several chapters are dedicated to Monte Carlo methods, which are used to simulate the luminescence processes during the irradiation, heating, and optical stimulation of solids, for a wide variety of materials. This book will be useful to those who use the tools of luminescence dosimetry, including physicists, geologists, archaeologists, and for all researchers who use radiation in their research.

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90,94 €

84,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030673109

Medium: Buch

ISBN: 978-3-030-67310-9

Verlag: Palgrave Macmillan

Erscheinungstermin: 12.05.2021

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Serie: Use R!

Produktform: Kartoniert

Gewicht: 563 g

Seiten: 350

Format (B x H): 155 x 235 mm

