



Earthquake Statistical Analysis through Multi-state Modeling

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E-Book	ISBN: 978-1-119-57908-3	December 2018	€92.99
Hardcover	ISBN: 978-1-786-30150-5	January 2019	€102.60

DESCRIPTION

Earthquake occurrence modeling is a rapidly developing research area. This book deals with its critical issues, ranging from theoretical advances to practical applications.

The introductory chapter outlines state-of-the-art earthquake modeling approaches based on stochastic models. Chapter 2 presents seismogenesis in association with the evolving stress field. Chapters 3 to 5 present earthquake occurrence modeling by means of hidden (semi-)Markov models and discuss associated characteristic measures and relative estimation aspects. Further comparisons, the most important results and our concluding remarks are provided in Chapters 6 and 7.

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