

1. Record Nr.	UNINA9910807965303321
Autore	Kagan Yan K
Titolo	Earthquakes : models, statistics, testable forecasts // Yan Y. Kagan
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Ltd, , 2014 ©2014
ISBN	1-118-63789-5 1-118-63791-7 1-118-63788-7
Edizione	[First edition.]
Descrizione fisica	1 online resource (307 p.)
Collana	Statistical Physics of Fracture and Breakdown
Classificazione	SCI032000
Disciplina	551.2201/12
Soggetti	Earthquake prediction Earthquake hazard analysis
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 and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Acknowledgments; List of Abbreviations; List of Mathematical Symbols; Part I Models; Chapter 1 Motivation: Earthquake science challenges; Chapter 2 Seismological background; 2.1 Earthquakes; 2.2 Earthquake catalogs; 2.3 Description of modern earthquake catalogs; 2.4 Earthquake temporal occurrence: quasi-periodic, Poisson, or clustered?; 2.5 Earthquake faults: one fault, several faults, or an infinite number of faults?; 2.6 Statistical and physical models of seismicity; 2.7 Laboratory and theoretical studies of fracture Chapter 3 Stochastic processes and earthquake occurrence models3.1 Earthquake clustering and branching processes; 3.2 Several problems and challenges; 3.3 Critical continuum-state branching model of earthquake rupture; 3.3.1 Time-magnitude simulation; 3.3.2 Space-focal mechanism simulation; Part II Statistics; Chapter 4 Statistical distributions of earthquake numbers: Consequence of branching process; 4.1 Theoretical considerations; 4.1.1 Generating function for the negative binomial distribution (NBD); 4.1.2 NBD distribution expressions; 4.1.3 Statistical parameter estimation 6.2 Seismic moment release in earthquakes and aftershocks6.2.1 Temporal distribution of aftershocks; 6.2.2 Southern California

earthquakes and their aftershocks; 6.2.3 Global shallow earthquakes; 6.2.4 Comparison of source-time functions and aftershock moment release; 6.3 Random shear stress and Omori's law; 6.4 Aftershock temporal distribution, theoretical analysis; 6.4.1 Levy distribution; 6.4.2 Inverse Gaussian distribution (IGD); 6.5 Temporal distribution of aftershocks: Observations; 6.5.1 Aftershock sequences; 6.5.2 Temporal distribution for earthquake pairs
6.6 Example: The New Madrid earthquake sequence of 1811-12

Sommario/riassunto

"The proposed book is the first comprehensive and methodologically rigorous analysis of earthquake occurrence. Models based on the theory of the stochastic multidimensional point processes are employed to approximate the earthquake occurrence pattern and evaluate its parameters. The Author shows that most of these parameters have universal values. These results help explain the classical earthquake distributions: Omori's law and the Gutenberg-Richter relation. The Author derives a new negative-binomial distribution for earthquake numbers, instead of the Poisson distribution, and then determines a fractal correlation dimension for spatial distributions of earthquake hypocenters. The book also investigates the disorientation of earthquake focal mechanisms and shows that it follows the rotational Cauchy distribution. These statistical and mathematical advances make it possible to produce quantitative forecasts of earthquake occurrence. In these forecasts earthquake rate in time, space, and focal mechanism orientation is evaluated"--

"Our purpose is to analyze the causes of recent failures in earthquake forecasting, as well as the difficulties in earthquake investigation"--

2. Record Nr.	UNINA9910154349303321
Autore	Giordano Paolo
Titolo	Like Family : A Novel
Pubbl/distr/stampa	East Rutherford : , : Penguin Publishing Group, , 2015 ©2015
ISBN	9780698191365 0698191366
Edizione	[1st ed.]
Descrizione fisica	1 online resource (96 pages)
Classificazione	FIC019000FIC045000FIC025000
Altri autori (Persone)	AppelAnne Milano
Disciplina	853/.92
Soggetti	FICTION / Literary FICTION / Family Life FICTION / Psychological
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"When a young married couple hire a middle-aged widow during the wife, Nora's, difficult pregnancy, they don't realize the dominating force she will become in their small family. Signora A--maid, nanny, and confidante--becomes the glue in their household, and over time, the steady and loving presence whose benign influence allows them to negotiate the complexities of married life. But the delicate fabric of the young family comes undone when Signora A is diagnosed with lung cancer. After she becomes too sick to work, both husband and wife feel the strain of her absence. Moving seamlessly between the past and present, Giordano weaves together the layers of Signora A's devotion and sacrifice--from her early experiences of love during a tragically short marriage, to her adoration of her new surrogate family. Highlighting the joy of youth and the fleeting nature of time with remarkable precision and lyricism, Paolo Giordano gives us a meditation on life, death, and the relationships we build in between. Like Family is not a simple love story; it's a story about love in its many forms, and how a capacity for love can give meaning to any existence, no matter how ordinary"--

