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Titolo	I dati preliminari per l'analisi territoriale di mortalità : (regioni italiane e cause di decesso nel periodo 1978-1988) / a cura di Pierantonio Bellini
Pubbl/distr/stampa	Padova : CLEUP, 1993
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Soggetti	Mortalità
Collocazione	300 304.64 BEL
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2. Record Nr.	UNINA9910456758003321
Autore	Segall Paul <1954->
Titolo	Earthquake and volcano deformation [[electronic resource] /] / Paul Segall
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Descrizione fisica	1 online resource (457 p.)
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Acknowledgments -- Origins -- References -- 1. Deformation, Stress, and Conservation Laws -- 2. Dislocation Models of Strike-Slip Faults -- 3. Dip-Slip Faults and Dislocations in Three Dimensions -- 4. Crack Models of Faults -- 5. Elastic Heterogeneity -- 6. Postseismic Relaxation -- 7. Volcano Deformation -- 8. Topography and Earth Curvature -- 9. Gravitational Effects -- 10. Poroelastic Effects -- 11. Fault Friction -- 12. Interseismic Deformation and Plate Boundary Cycle Models -- APPENDIX A. Integral Transforms -- APPENDIX B. A Solution of the Diffusion Equation -- APPENDIX C. Displacements Due to Crack Model of Strike-Slip Fault by Contour Integration -- Author Index
Sommario/riassunto	<p>Earthquake and Volcano Deformation is the first textbook to present the mechanical models of earthquake and volcanic processes, emphasizing earth-surface deformations that can be compared with observations from Global Positioning System (GPS) receivers, Interferometric Radar (InSAR), and borehole strain- and tiltmeters. Paul Segall provides the physical and mathematical fundamentals for the models used to interpret deformation measurements near active faults and volcanic centers. Segall highlights analytical methods of continuum mechanics applied to problems of active crustal deformation. Topics include elastic dislocation theory in homogeneous and layered half-spaces, crack models of faults and planar intrusions, elastic fields due to pressurized spherical and ellipsoidal magma chambers, time-dependent deformation resulting from faulting in an elastic layer overlying a viscoelastic half-space and related earthquake cycle models, poroelastic effects due to faulting and magma chamber inflation in a fluid-saturated crust, and the effects of gravity on deformation. He also explains changes in the gravitational field due to faulting and magmatic intrusion, effects of irregular surface topography and earth curvature, and modern concepts in rate- and state-dependent fault friction. This textbook presents sample calculations and compares model predictions against field data from seismic and volcanic settings from around the world. Earthquake and Volcano Deformation requires working knowledge of stress and strain, and advanced calculus. It is appropriate for advanced undergraduates and graduate students in geophysics, geology, and engineering. Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: http://press.princeton.edu/class_use/solutions.html</p>