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Titolo	Geohazards and pipelines : state-of-the-art design using experimental, numerical and analytical methodologies / / Spyros A. Karamanos, Arnold M. Gresnigt, Gert J. Dijkstra, editors
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Scope, Backgrounds, and Objectives -- Relevant Standards -- List of Symbols and Abbreviations -- Design Procedures -- Pipelines Under Large Ground-induced Defamations -- Route Study: Geotechnical and Geological Investigations -- Calculation Models for Pipelines Under Large Ground-induced Deformations -- Modes of Failure, Limit States, and Limit Values -- Simplified Calculation Models for Pipeline Deformation Analyses due to Permanent Ground Deformation: Analytical Expressions. .
Sommario/riassunto	This book presents state-of-the-art methodologies for the design and analysis of buried steel pipelines subjected to severe ground-induced action, including tectonic (quasi-static) effects, slope movements (landslides), liquefaction-induced actions or excavation-induced settlements. The text is an amended version of the final deliverables of the GIPIPE project, sponsored by the European Commission (Research Fund for Coal and Steel programme, 2011-2014). Geohazards and Pipelines presents an integrated investigation of this subject, using advanced and innovative experimental techniques, high-performance numerical simulations and novel analytical methodologies, which account for the particularities of buried steel pipelines with an emphasis on soil-pipeline interaction. Geohazards and Pipelines will be of use to professionals working in the field of pipeline engineering, including design consultants and industrial practitioners involved in

projects related to pipeline infrastructure. Structural engineers, mechanical engineers, geotechnical engineers, geologists and seismologists may also find this book of interest, as may graduate students and researchers in these areas.

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