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Titolo	Ground improvement and geosynthetics : proceedings of the GeoShanghai 2010 International Conference, June 3-5, 2010, Shanghai, China / / edited by Anand Puppala ... [et al.]
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Descrizione fisica	1 online resource (391 p.)
Collana	Geotechnical special publication ; ; 207
Altri autori (Persone)	PuppalaAnand J
Disciplina	624.151363
Soggetti	Soil stabilization Geosynthetics Earthwork - Materials
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""; ""Contents""; ""Keynote Lecture Paper""; ""Durability of Cement Treated Clay with Air Foam Used in Water Front Structures""; ""Ground Improvement""; ""An Economical, Practical, and Environmental Friendly Surcharge Preloading Method to Improve Soft Ground of Municipal Road""; ""Estimation of Strength Gain Due to Consolidation""; ""Numerical Study on the Deformation and Failure of Reinforced Sand Retaining Walls Subjected to the Vertical Load""; ""Development of Reinforced Soil Structure with Pile Foundation: Piled Geo-Wall"" ""Limit Analysis of Reinforced Soil Slopes Based on Composite Reinforcement Mechanism""""""Comparison of Performance between Cross Shaped and Conventional Deep Mixed Columns for Three-Layered Soft Ground Improvement under Embankment Load""; ""A New Method for Settlement Calculation of Long-Short Piles Combined Composite Foundation""; ""Experimental Study on Vertical Bearing Behavior of Composite Foundation with Tapered Rigid Pile""; ""Implementation of Optimized Soil Improvement Techniques for a Giga Project""; ""Experimental Study on Shear Strength Behavior of Shredded Tyre-Reinforced Sand"" ""Numerical Analysis of Lateral Behavior of Rigid Piles to Support Embankments""""""Settlement Behavior of Highway Transition Sections on

Soft Clay Foundation""; ""Consolidating Dredge Soil by Combining Vacuum and Dynamic Compaction Effort""; ""Chemical Modification Methods""; ""Optimization of Deep Mixed Shear Walls for Stabilization of a Pile-Supported Flood Wall on Level Ground""; ""Heavy Structures Supported by Soil-Cement Columns""; ""Mechanical Properties of Used Tire Granulates, Sand, and Cement Mixtures""; ""Fly Ash As a Dispersing Material in Cement Stabilization""
""Strength Characteristics of a Local Red Soil Blended with Class F Fly Ash and Cement""""""Mechanical Behavior of Compacted Geomaterial Changed from the Dredged Soil in Nagoya Port by Mixing with Some Stabilizers""; ""Effects of Organics on Stabilized Expansive Subgrade Soils""; ""Application of Gypsum Waste Plasterboard and Waste Plastic Trays to Enhance the Performance of Sandy Soil""; ""Effect of Placement Water Content on Strength of Temperature Cured Lime Treated Expansive Soil""; ""Utilization of Shredded Rubber Tires for Cement-Stabilized Soft Clays""; ""Other Modification Methods""
""Analysis on Load Transfer for Single Pile Composite Foundation under Embankments Based on Elastic Theory""""""A Review of the Settlement of Stone Columns in Compressible Soils""; ""Field Test and Numerical Analysis on Performance Upgrade of Existing Rockfall Protection Fence by Using High Energy Absorption Net""; ""Numerical Modelling for Ground Improvement of Batter Micropiles on Liquefiable Soils""; ""Slope Stability Analysis for Embankment on Wash Pond Sediments with Prefabricated Wick Drains and Staged Construction""
""Bridge Approach Settlements: Lessons Learned from Present Case Studies and Ground Improvement Solutions""

Sommario/riassunto

Proceedings of sessions of GeoShanghai 2010, held in Shanghai, China, June 3-5, 2010. Hosted by Tongji University, China; Shanghai Society of Civil Engineering, China; Chinese Institution of Soil Mechanics and Geotechnical Engineering, China. In cooperation with Alaska University Transportation Center, USA; Geo-Institute of ASCE, USA; Deep Foundation Institute, USA; East China Architectural Design and Research Institute Company, China; Georgia Institute of Technology, USA; Nagoya Institute of Technology, Japan; Transportation Research Board, USA; University of Newcastle, Australia; University of Illinois at Urbana-Champaign, USA; University of Kansas, USA; University of Tennessee, USA; Vienna University of Natural Resources and Applied Life Sciences, Austria. This Geotechnical Special Publication contains 48 papers presenting the most current research on ground improvement and geosynthetics. Topics include: ground improvement, especially with regard to unstable ground; soft soils; expansive soils; collapsible soils; reclaimed soils; contaminated soils; and others. Papers analyze improvement methods including mechanical and hydraulic methods, chemical stabilization methods in both shallow and deep ground, and reinforcement methods using geosynthetics.

2. Record Nr. UNINA9910139240403321

Autore	Iosifescu Marius
Titolo	Introduction to stochastic models / / Marius Iosifescu, Nikolaos Limnios, Gheorghe Oprisan ; series editor, Nikolaos Limnios
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Collana	Applied stochastic methods series
Altri autori (Persone)	LimniosN (Nikolaos) OprisanGheorghe
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Introduction to Stochastic Models; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. Introduction to Stochastic Processes; 1.1. Sequences of random variables; 1.2. The notion of stochastic process; 1.3. Martingales; 1.3.1. Stopping time; 1.3.2. Discrete-time martingales; 1.3.3. Martingale convergence; 1.3.4. Square integrable martingales; 1.4. Markov chains; 1.4.1. Markov property; 1.4.2. Transition function; 1.4.3. Strong Markov property; 1.5. State classification; 1.5.1. Stationary probability; 1.6. Continuous-time Markov processes; 1.6.1. Transition function 1.6.2. Kolmogorov equations1.7. Semi-Markov processes; 1.7.1. Markov renewal processes; 1.7.2. Semi-Markov processes; Chapter 2. Simple Stochastic Models; 2.1. Urn models; 2.2. Random walks; 2.3.

Brownian motion; 2.3.1. Introduction; 2.3.2. Basic properties; 2.4. Poisson processes; 2.5. Birth and death processes; Chapter 3. Elements of Markov Modeling; 3.1. Markov models: ideas, history, applications; 3.2. The discrete-time Ehrenfest model; 3.2.1. The microscopic chain; 3.2.2. The macroscopic chain; 3.2.3. Some characteristics of the Ehrenfest model
3.2.4. The discrete-time Ehrenfest model: history, generalizations, similar models3.3. Markov models in genetics; 3.3.1. Laws of heredity and mathematics; 3.3.2. Haploid models; 3.3.3. Models with two genotypes and without mutations; 3.3.4. Models with several genotypes and without mutations; 3.3.5. Models with two genotypes and mutations; 3.3.6. Models with several genotypes and mutations; 3.3.7. Models with partitioned population; 3.3.8. Genealogy models for large size populations; 3.4. Markov storage models; 3.4.1. Discrete-time models; 3.4.2. Continuous-time models
3.4.3. A generalized storage model3.5. Reliability of Markov models; 3.5.1. Introduction to reliability; 3.5.2. Some classes of survival distributions; 3.5.3. Discrete-time models; 3.5.4. Continuous-time models; Chapter 4. Renewal Models; 4.1. Fundamental concepts and examples; 4.2. Waiting times; 4.3. Modified renewal processes; 4.4. Replacement models; 4.5. Renewal reward processes; 4.6. The risk problem of an insurance company; 4.7. Counter models; 4.7.1. Type I counters; 4.7.2. Type II counters; 4.8. Alternating renewal processes; 4.9. Superposition of renewal processes
4.10. Regenerative processesChapter 5. Semi-Markov Models; 5.1. Introduction; 5.2. Markov renewal processes; 5.2.1. Definitions; 5.2.2. Markov renewal theory; 5.3. First-passage times and state classification; 5.3.1. Stationary distribution and asymptotic results; 5.4. Reliability; 5.5. Reservoir models; 5.5.1. Model I; 5.5.2. Model II; 5.6. Queues; 5.6.1. The G/M/1 queue; 5.6.2. The M/G/1 queue; 5.7. Digital communication channels; Chapter 6. Branching Models; 6.1. The Bienayme-Galton-Watson model; 6.1.1. Historical considerations; 6.1.2. Some elementary results; 6.1.3. A fundamental example
6.1.4. Extinction probability: critical theorem

Sommario/riassunto

This book provides a pedagogical examination of the way in which stochastic models are encountered in applied sciences and techniques such as physics, engineering, biology and genetics, economics and social sciences. It covers Markov and semi-Markov models, as well as their particular cases: Poisson, renewal processes, branching processes, Ehrenfest models, genetic models, optimal stopping, reliability, reservoir theory, storage models, and queuing systems. Given this comprehensive treatment of the subject, students and researchers in applied sciences, as well as anyone looking for an introduc