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Autore	Lassiter Allison
Titolo	Sustainable Water [[electronic resource]] : Challenges and Solutions from California
Pubbl/distr/stampa	Berkeley, : University of California Press, 2015
Descrizione fisica	1 online resource (1022 p.)
Disciplina	333.91009794
Soggetti	Water security -- California Water-supply -- California -- History Water-supply -- California Water-supply - History - California Water-supply - California Water security - California History & Archaeology Civil & Environmental Engineering Engineering & Applied Sciences History - General Environmental Engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Title; Copyright; Contents; Contributors; Acknowledgments; Introduction; 1. Adapting California's Water Sector to a Changing Climate; 2. The Water-Energy-Climate Nexus in California; 3. California's Flawed Surface Water Rights; 4. The Reasonable Use Doctrine in California Water Law and Policy; 5. Urban Water Demand and Pricing in a Changing Climate; 6. Coping with Delta Floods and Protecting California's Water Supply in a Regional Flood Management System; 7. Portfolio Approaches to Reduce Costs and Improve Reliability of Water Supplies 8. The Challenge of Sustainable Groundwater Management in California 9. People, Resources, and Policy in Integrated Water Resource

Management; 10. The History of Water Reuse in California; 11. Water Justice in California's Central Valley; 12. The Incendiary Mix of Salmon and Water in Mediterranean-Climate California; 13. Adaptive Management in Federal Energy Regulatory Commission Relicensing; 14. Emerging Cultural Waterscapes in California Cities Connect Rain to Taps and Drains to Gardens; 15. California's Water Footprint Is Too Big for Its Pipes; Afterword; Index

Sommario/riassunto

Water scarcity, urban population growth, and deteriorating infrastructure are impacting water security around the globe. Struggling with the most significant drought in its recorded history, California faces all of these challenges to secure reliable water supplies for the future. The unfolding story of California water includes warnings and solutions for any region seeking to manage water among the pressures of a dynamic society and environment. Written by leading policy makers, lawyers, economists, hydrologists, ecologists, engineers, and planners, Sustainable Water reaches across disciplines

2. Record Nr.

Titolo

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Modeling and simulation fundamentals [[electronic resource]] : theoretical underpinnings and practical domains / / edited by John A. Sokolowski, Catherine M. Banks

Pubbl/distr/stampa

Hoboken, N.J., : Wiley, c2010

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Descrizione fisica

1 online resource (453 p.)

Altri autori (Persone)

SokolowskiJohn A. <1953->
BanksCatherine M. <1960->

Disciplina

511.8
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Soggetti

Mathematical models
Mathematical optimization
Simulation methods

Lingua di pubblicazione

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Formato

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Livello bibliografico

Monografia

Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>MODELING AND SIMULATION FUNDAMENTALS; CONTENTS; Preface; Contributors; 1 Introduction to Modeling and Simulation; M&S; M&S Characteristics and Descriptors; M&S Categories; Conclusion; References; 2 Statistical Concepts for Discrete Event Simulation; Probability; Simulation Basics; Input Data Modeling; Output Data Analysis; Conclusion; References; 3 Discrete-Event Simulation; Queuing System Model Components; Simulation Methodology; DES Example; Hand Simulation-Spreadsheet Implementation; Arena Simulation; Conclusion; References; 4 Modeling Continuous Systems; System Class Modeling and Simulation (M&S) StrategyModeling Approach; Model Examples; Simulating Continuous Systems; Simulation Implementation; Conclusion; References; 5 Monte Carlo Simulation; The Monte Carlo Method; Sensitivity Analysis; Conclusion; References; 6 Systems Modeling: Analysis and Operations Research; System Model Types; Modeling Methodologies and Tools; Analysis of Modeling and Simulation (M&S); OR Methods; Conclusion; References; Further Readings; 7 Visualization; Computer Graphics Fundamentals; Visualization Software and Tools; Case Studies; Conclusion; References</p> <p>8 M&S Methodologies: A Systems Approach to the Social SciencesSimulating State and Substate Actors with CountrySim: Synthesizing Theories Across the Social Sciences; The CountrySim Application and Sociocultural Game Results; Conclusions and the Way Forward; References; 9 Modeling Human Behavior; Behavioral Modeling at the Physical Level; Behavioral Modeling at the Tactical and Strategic Level; Techniques for Human Behavior Modeling; Human Factors; Human-Computer Interaction; Conclusion; References; 10 Verification, Validation, and Accreditation; Motivation; Background Definitions VV&A DefinitionsV&V as Comparisons; Performing VV&A; V&V Methods; VV&A Case Studies; Conclusion; Acknowledgments; References; 11 An Introduction to Distributed Simulation; Trends and Challenges of Distributed Simulation; A Brief History of Distributed Simulation; Synchronization Algorithms for Parallel and Distributed Simulation; Distributed Simulation Middleware; Conclusion; References; 12 Interoperability and Composability; Defining Interoperability and Composability; Current Interoperability Standard Solutions; Engineering Methods Supporting Interoperation and Composition; Conclusion ReferencesFurther Readings; Index</p>
Sommario/riassunto	An insightful presentation of the key concepts, paradigms, and applications of modeling and simulation Modeling and simulation has become an integral part of research and development across many fields of study, having evolved from a tool to a discipline in less than two decades. Modeling and Simulation Fundamentals offers a comprehensive and authoritative treatment of the topic and includes definitions, paradigms, and applications to equip readers with the skills needed to work successfully as developers and users of modeling and simulation. Featuring contributions written b