1. Record Nr. UNINA9910480088603321

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Titolo	Exploring Monte Carlo methods [[electronic resource] /] / William L. Dunn, J. Kenneth Shultis
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier, c2012
ISBN	1-283-17383-2 9786613173836 0-08-093061-1
Descrizione fisica	1 online resource (401 p.)
Altri autori (Persone)	ShultisJ. Kenneth
Disciplina	510 518/.282
Soggetti	Monte Carlo method Electronic books.
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	Front Cover; Exploring Monte Carlo Methods; Copyright; Dedication; Table of Contents; Preface; Chapter 1. Introduction; 1.1 What Is Monte Carlo?; 1.2 A Brief History of Monte Carlo; 1.3 Monte Carlo as Quadrature; 1.4 Monte Carlo as Simulation; 1.5 Preview of Things to Come; 1.6 Summary; Bibliography; Problems; Chapter 2. The Basis of Monte Carlo; 2.1 Single Continuous Random Variables; 2.2 Discrete Random Variables; 2.3 Multiple Random Variables; 2.4 The Law of Large Numbers; 2.5 The Central Limit Theorem; 2.6 Monte Carlo Quadrature; 2.7 Monte Carlo Simulation; 2.8 Summary; Bibliography ProblemsChapter 3. Pseudorandom Number Generators; 3.1 Linear Congruential Generators; 3.2 Structure of the Generated Random Numbers; 3.3 Characteristics of Good Random Number Generators; 3.4 Tests for Congruential Generators; 3.5 Practical Multiplicative Congruential Generators; 3.6 Shuffling a Generator's Output; 3.7 Skipping Ahead; 3.8 Combining Generators; 3.9 Other Random Number Generators; 3.10 Summary; Bibliography; Problems; Chapter 4. Sampling, Scoring, and Precision; 4.1 Sampling; 4.2 Scoring; 4.3 Accuracy and Precision; 4.4 Summary; Bibliography; Problems Chapter 5. Variance Reduction Techniques5.1 Use of Transformations;

5.2 Importance Sampling; 5.3 Systematic Sampling; 5.4 Stratified Sampling; 5.5 Correlated Sampling; 5.6 Partition of the Integration Volume; 5.7 Reduction of Dimensionality; 5.8 Russian Roulette and Splitting; 5.9 Combinations of Different Variance Reduction Techniques; 5.10 Biased Estimators; 5.11 Improved Monte Carlo Integration Schemes; 5.12 Summary; Bibliography; Problems; Chapter 6. Markov Chain Monte Carlo; 6.1 Markov Chains to the Rescue; 6.2 Brief Review of Probability Concepts; 6.3 Bayes Theorem
6.4 Inference and Decision Applications6.5 Summary; Bibliography; Problems; Chapter 7. Inverse Monte Carlo; 7.1 Formulation of the Inverse Problem; 7.2 Inverse Monte Carlo by Iteration; 7.3 Symbolic Monte Carlo; 7.4 Inverse Monte Carlo by Simulation; 7.5 General Applications of IMC; 7.6 Summary; Bibliography; Problems; Chapter 8. Linear Operator Equations; 8.1 Linear Algebraic Equations; 8.2 Linear Integral Equations; 8.3 Linear Differential Equations; 8.4 Eigenvalue Problems; 8.5 Summary; Bibliography; Problems; Chapter 9. The Fundamentals of Neutral Particle Transport
9.1 Description of the Radiation Field9.2 Radiation Interactions with the Medium; 9.3 Transport Equation; 9.4 Adjoint Transport Equation; 9.5 Summary; Bibliography; Problems; Chapter 10. Monte Carlo Simulation of Neutral Particle Transport; 10.1 Basic Approach for Monte Carlo Transport Simulations; 10.2 Geometry; 10.3 Sources; 10.4 Path-Length Estimation; 10.5 Purely Absorbing Media; 10.6 Type of Collision; 10.7 Time Dependence; 10.8 Particle Weights; 10.9 Scoring and Tallies; 10.10 An Example of One-Speed Particle Transport; 10.11 Monte Carlo Based on the Integral Transport Equation
10.12 Variance Reduction and Nonanalog Methods

Sommario/riassunto

Exploring Monte Carlo Methods is a basic text that describes the numerical methods that have come to be known as ""Monte Carlo."" The book treats the subject generically through the first eight chapters and, thus, should be of use to anyone who wants to learn to use Monte Carlo. The next two chapters focus on applications in nuclear engineering, which are illustrative of uses in other fields. Five appendices are included, which provide useful information on probability distributions, general-purpose Monte Carlo codes for radiation transport, and other matters. The famous ""Buffon's needle p

2. Record Nr. UNINA9910798485203321

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Titolo	Cities of change : Addis Ababa : transformation strategies for urban territories in the 21st century / / Marc Angelil, Dirk Hebel
Pubbl/distr/stampa	Basel, Switzerland : , : Birkhauser, , 2016 ©2016
ISBN	3-0356-0686-2
Edizione	[Second and revised edition.]
Descrizione fisica	255 p. : col.ill. ; ; 27 cm
Classificazione	ZH 9400
Disciplina	711.409633
Soggetti	City planning - Ethiopia - Addis Ababa City planning - Ethiopia City planning - Environmental aspects - Ethiopia - Addis Ababa City planning - Environmental aspects - Ethiopia Sustainable urban development - Ethiopia - Addis Ababa Sustainable urban development - Ethiopia
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.
Nota di contenuto	Cities of Change – Addis Ababa -- Frontmatter -- Preface -- Contents -- Mirror, Mirror, on The Wall -- Urban Laboratory – Addis Ababa -- Mirroring Research -- Stocks and Flows of People -- The Portrait of an Isolated Nation -- Integrating Urbanity -- Displacement on The Horn of Africa -- Capitals on The Move -- Proxemics -- An Imperial Colonial City in Africa -- Educity -- Stocks and Flows of Space -- Spatial Effects of Individual Home-Ownership -- Learning from Bole -- Addis 5000 -- Mercato -- Informal Cities -- Suburbing Addis -- In-Urbia -- Designing The Negative -- Transformalism -- Stocks and Flows of Material -- Dubai Fever -- Low-Rise, High-Intensity Urbanism In Addis Ababa -- Sudu -- Infrastructural Tales -- AddisBuilt -- Cement Dreams -- Stocks and Flows of Capital -- Beans or Butterflies -- Synergic Urbanism -- Poverty in The City -- Unite! -- The LPD Effect -- Addis 2020 -- Who Built This? China, China, China! -- Stocks and Flows of Information -- Genesis of The Ethiopian Institute of Architecture, Building Construction and City Development EIABC -- Mixcity -- Ethnic City: Ethnicity in The City -- Dynamic Plan --

Education in Ethiopia -- Linked Ethiopia -- Stocks and Flows of Energy -- Empowering a Nation -- Sol-Urbia -- Bottom-Up Solar Energy -- Selected Bibliography -- Actor-Network Acknowledgements -- Contributors -- Illustration Credits -- Backmatter

Sommario/riassunto

Addis Ababa is one of the fastest transforming environments on the globe and a prototype of an emerging territory. What can architecture and urban design as disciplines contribute to such transformation? According to which criteria can processes of the kind encountered in Addis Ababa be evaluated? And, how can all of this be steered? Aiming to identify sustainable strategies—rather than upholding an a priori vision of an ideal city—the publication acknowledges the heterogeneous conditions of urban territories. The book highlights questions of method and procedure that can be transferred to other ‘cities of change’. This revised edition covers recent developments, such as the increasing influence of China in African countries or the chances of high-density, low-rise developments.
Die äthiopische Hauptstadt Addis Abeba ist eine sich rasant wandelnde Metropole und steht prototypisch für ein urbanes Zentrum in einer Schwellenregion. Was können Architektur und Stadtplanung zu diesem raschen Wandel beitragen? Wie kann das enorme Stadtwachstum infolge von Landflucht und Bevölkerungsanstieg besser verstanden werden? Und: Wie lässt es sich steuern? Das Buch stellt einen Katalog von Strategien für die Städtebaupraxis außerhalb der alten Industrieländer Europas und Nordamerikas vor und gibt dabei den Planern allgemeingültige Methoden und Werkzeuge für dynamische Planungs- und Steuerungsprozesse an die Hand. Die Neuausgabe enthält Beiträge zu Neuentwicklungen wie etwa dem Einfluss Chinas in afrikanischen Ländern oder zu den Chancen durch urbane Nachverdichtung.