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Nota di contenuto	Frontmatter -- Contents -- Preface to the Paperback Edition -- Introduction -- The Problems -- 1. The Clumsy Dishwasher Problem -- 2. Will Lil and Bill Meet at the Malt Shop? -- 3. A Parallel Parking Question -- 4. A Curious Coin-Flipping Game -- 5. The Gamow-Stern Elevator Puzzle -- 6. Steve's Elevator Problem -- 7. The Pipe Smoker's Discovery -- 8. A Toilet Paper Dilemma -- 9. The Forgetful Burglar Problem -- 10. The Umbrella Quandary -- 11. The Case of the Missing Senators -- 12. How Many Runners in a Marathon? -- 13. A Police Patrol Problem -- 14. Parrondo's Paradox -- 15. How Long Is the Wait to Get the Potato Salad? -- 16. The Appeals Court Paradox -- 17. Waiting for Buses -- 18. Waiting for Stoplights -- 19. Electing Emperors and Popes -- 20. An Optimal Stopping Problem -- 21. Chain Reactions, Branching Processes, and Baby Boys -- The Solutions -- 1. The Clumsy Dishwasher Problem -- 2. Will Lil and Bill Meet at the Malt Shop? -- 3. A Parallel Parking Question -- 4. A Curious Coin-Flipping Game -- 5. The Gamow-Stern Elevator Puzzle -- 6. Steve's Elevator Problem -- 7. The Pipe Smoker's Discovery -- 8. A Toilet Paper Dilemma -- 9. The Forgetful Burglar Problem -- 10. The Umbrella Quandary -- 11. The Case of the Missing Senators -- 12. How Many Runners in a Marathon?

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## Sommario/riassunto

Some probability problems are so difficult that they stump the smartest mathematicians. But even the hardest of these problems can often be solved with a computer and a Monte Carlo simulation, in which a random-number generator simulates a physical process, such as a million rolls of a pair of dice. This is what Digital Dice is all about: how to get numerical answers to difficult probability problems without having to solve complicated mathematical equations. Popular-math writer Paul Nahin challenges readers to solve twenty-one difficult but fun problems, from determining the odds of coin-flipping games to figuring out the behavior of elevators. Problems build from relatively easy (deciding whether a dishwasher who breaks most of the dishes at a restaurant during a given week is clumsy or just the victim of randomness) to the very difficult (tackling branching processes of the kind that had to be solved by Manhattan Project mathematician Stanislaw Ulam). In his characteristic style, Nahin brings the problems to life with interesting and odd historical anecdotes. Readers learn, for example, not just how to determine the optimal stopping point in any selection process but that astronomer Johannes Kepler selected his second wife by interviewing eleven women. The book shows readers how to write elementary computer codes using any common programming language, and provides solutions and line-by-line walk-throughs of a MATLAB code for each problem. Digital Dice will appeal to anyone who enjoys popular math or computer science. In a new preface, Nahin wittily addresses some of the responses he received to the first edition.

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2. Record Nr.	UNISA996495771803316
Titolo	al-Amd
Pubbl/distr/stampa	Karbal al-Muqaddasah, Jumhriyat al-Irq : , : al-Atabah al-Abbsyah al-Muqaddasah
Descrizione fisica	1 online resource
Soggetti	Islam Shiites Shah Criticism, interpretation, etc. Periodicals.
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Note generali	Each issue has also a distinctive title. "Majallah falyah muakkamah." Title from title page.