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| 1. Record Nr. | UNINA9910789433703321 |
| Autore | Viswanathan Gandhimohan M. |
| Titolo | The physics of foraging : an introduction to random searches and biological encounters // Gandhimohan M. Viswanathan [and three others] [[electronic resource]] |
| Pubbl/distr/stampa | Cambridge : , : Cambridge University Press, , 2011 |
| ISBN | 1-107-22161-7 1-283-12753-9 9786613127532 1-139-09265-0 0-511-90268-9 1-139-09317-7 1-139-09214-6 1-139-09125-5 1-139-09034-8 |
| Descrizione fisica | 1 online resource (xiii, 164 pages) : digital, PDF file(s) |
| Classificazione | SCI040000 |
| Altri autori (Persone) | ViswanathanGandhimohan M |
| Disciplina | 591.5 |
| Soggetti | Animal behavior - Mathematical models Home range (Animal geography) - Mathematical models Biological invasions - Mathematical models Animal ecology - Mathematical models |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Title from publisher's bibliographic system (viewed on 05 Oct 2015). |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Machine generated contents note: Part I. Introduction: Movement: 1. Empirical motivation for studying movement; 2. Statistical physics of biological motion; 3. Random walks and Levy flights; 4. Wandering albatrosses; Part II. Experimental Findings: 5. Early studies; 6. Evidence of anomalous diffusion; 7. Human dispersal; 8. How strong is the evidence?; Part III. Theory of Foraging: 9. Optimizing encounter rates; 10. Levy flight foraging; 11. Other search models; Part IV. Finale: A Broader Context: 12. Superdiffusive random searches; 13. Adaptational versus emergent superdiffusion; 14. Perspectives and open problems; Appendices; References; Index. |

Sommario/riassunto

Do the movements of animals, including humans, follow patterns that can be described quantitatively by simple laws of motion? If so, then why? These questions have attracted the attention of scientists in many disciplines, and stimulated debates ranging from ecological matters to queries such as 'how can there be free will if one follows a law of motion?' This is the first book on this rapidly evolving subject, introducing random searches and foraging in a way that can be understood by readers without a previous background on the subject. It reviews theory as well as experiment, addresses open problems and perspectives, and discusses applications ranging from the colonization of Madagascar by Austronesians to the diffusion of genetically modified crops. The book will interest physicists working in the field of anomalous diffusion and movement ecology as well as ecologists already familiar with the concepts and methods of statistical physics.

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| 2. Record Nr. | UNISA996214418503316 |
| Titolo | Apeiron : a journal for ancient philosophy and science |
| Pubbl/distr/stampa | Clayton, Victoria, Australia : , : Department of Classical Studies, Monash University, , [1967]- South Edmonton, Alberta, Canada : , : Academic Printing & Publishing [Boston, MA] : , : [Walter de Gruyter, Inc.] |
| ISSN | 2156-7093 |
| Collana | Monash classical studies |
| Classificazione | 08.21 |
| Disciplina | 180/.05 180.05 |
| Soggetti | Philosophy, Ancient Science - Philosophy Philosophie ancienne Sciences - Philosophie Periodicals. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Periodico |
| Note generali | Some nos. have also a distinctive title. |

