

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.

**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.

