

1. Record Nr.	UNINA9910588786303321
Autore	Ke Yuanyuan
Titolo	Analysis of reaction-diffusion models with the Taxis mechanism // Yuanyuan Ke, Jing Li, Yifu Wang
Pubbl/distr/stampa	Singapore, : Springer Nature, 2022 Singapore : , : Springer, , 2022 ©2022
ISBN	981-19-3763-X
Descrizione fisica	1 online resource (ix, 411 pages) : illustrations (some color)
Collana	Financial Mathematics and Fintech.
Altri autori (Persone)	LiJing <active 2022.> WangYifu <active 2022.>
Soggetti	Boundary value problems Chemotaxis - Mathematical models Navier-Stokes equations Problemes de contorn Quimiotaxi Models matemàtics Equacions de Navier-Stokes Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Large time behavior of solutions to the chemotaxis-fluid Chapter 2. Global existence in Keller Segel Navier Stokes system involving tensor-valued sensitivity Chapter 3. Large time behavior of solutions to chemotaxis haptotaxis models Chapter 4. Large time behavior of Keller Segel (Navier) Stokes system modeling coral fertilization Chapter 5. Qualitative properties to density-suppressed motility models Chapter 6. Large time behavior of multi-taxis cross-diffusion system
Sommario/riassunto	This open access book deals with a rich variety of taxis-type cross-diffusive equations. Particularly, it intends to show the key role played by quasi-energy inequality in the derivation of some necessary a priori estimates. This book addresses applied mathematics and all

researchers interested in mathematical development of reaction-diffusion theory and its application and can be a basis for a graduate course in applied mathematics.

---