

1. Record Nr.	UNINA9910349322303321
Titolo	Active Particles, Volume 2 : Advances in Theory, Models, and Applications / / edited by Nicola Bellomo, Pierre Degond, Eitan Tadmor
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ISBN	3-030-20297-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (279 pages) : illustrations
Collana	Modeling and Simulation in Science, Engineering and Technology, , 2164-3725
Disciplina	570.15118
Soggetti	Mathematical models System theory Mathematical physics Mathematical Modeling and Industrial Mathematics Complex Systems Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Kinetic and moment models for cell motion in fiber structures -- Kinetic models for pattern formation in animal aggregations: a symmetry and bifurcation approach -- Aggregation-diffusion equations: dynamics, asymptotics, and singular limits -- High-resolution positivity and asymptotic preserving Numerical methods for chemotaxis and related models -- Control strategies for the dynamics of large particle systems -- Kinetic equations and self-organized band formations -- Singular Cucker-Smale dynamics -- A stochastic-statistical residential burglary model with finite size effects.
Sommario/riassunto	This volume compiles eight recent surveys that present state-of-the-art results in the field of active matter at different scales, modeled by agent-based, kinetic, and hydrodynamic descriptions. Following the previously published volume, these chapters were written by leading experts in the field and accurately reflect the diversity of subject matter in theory and applications. Several mathematical tools are employed throughout the volume, including analysis of nonlinear PDEs, network

theory, mean field approximations, control theory, and flocking analysis. The book also covers a wide range of applications, including: Biological network formation Social systems Control theory of sparse systems Dynamics of swarming and flocking systems Stochastic particles and mean field approximations Mathematicians and other members of the scientific community interested in active matter and its many applications will find this volume to be a timely, authoritative, and valuable resource.

2. Record Nr.

Titolo

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Systematic review of the current literature related to disability and chronic fatigue syndrome // prepared for Agency for Healthcare Research and Quality, U.S. Department of Health and Human Services ; prepared by MetaWorks, Inc. Evidence-based Practice Center ; Cindy Levine, principal investigator ... [et al.]

Pubbl/distr/stampa

U.S. Dept. of Health and Human Services, Public Health Service, Agency for Healthcare Research and Quality
Rockville, Md

Altri autori (Persone)

RossSusan D., MD
LevineCindy
GanzNelson

Soggetti

Chronic fatigue syndrome
Disability evaluation
Disability Evaluation
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Review

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