

1. Record Nr.	UNINA9910451612503321
Titolo	Non-equilibrium soft matter physics [[electronic resource] /] / editors, Shigeyuki Komura, Takao Ohta
Pubbl/distr/stampa	Singapore, : World Scientific Pub. Co., 2012
ISBN	1-280-66957-8 9786613646507 981-4360-63-5
Descrizione fisica	1 online resource (435 p.)
Collana	Series in soft condensed matter, , 1793-737X ; ; v. 4
Altri autori (Persone)	KomuraShigeyuki OhtaTakao
Disciplina	530.41
Soggetti	Condensed matter Equilibrium Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword; Preface; Contents; 1. Onsager's Variational Principle in Soft Matter Dynamics M. Doi; 1. Introduction; 2. Particle Motion in Viscous Fluid; 2.1. Stokesian hydrodynamics; 2.2. Hydrodynamic reciprocal relation; 2.3. Hydrodynamic variational principle; 3. Onsager's Variational Principle; 3.1. Onsager's kinetic equation; 3.2. Validity of the variational principle; 3.3. Merit of the variational principle; 3.4. Reciprocal relation in the kinetic equation; 3.5. Forces needed to controll the state variables; 4. Brownian Motion; 4.1. Diffusion equation 4.2. Reciprocal relation in the diffusion equation 4.3. Forces acting on the semi-permeable membrane; 5. Rotational Brownian Motion; 5.1. State variables of a rod-like particle; 5.2. Diffusion equation for (,); 5.3. Diffusion equation for (u); 5.4. Diffusion equation in flow field; 5.5. Expression for the stress tensor; 6. Coupling between Diffusion and Flow; 6.1. Diffusion in concentrated solutions; 6.2. Coupling between solute diffusion and solution flow; 6.3. Phase separation; 7. Gel Dynamics; 8. Liquid Crystals; 9. Conclusion; Acknowledgments Appendix A. Proof of the Hydrodynamic Reciprocal Relation References; 2. Rheo-Dielectric Behavior of Soft Matters H. Watanabe, Y. Matsumiya,

K. Horio, Y. Masubuchi and T. Uneyama; 1. Introduction; 2. Basics of Dielectric Relaxation; 2.1. Instrumentation; 2.2. Phenomenological framework; 2.3. Molecular expression of $\epsilon''(\omega)$; 3. Rheo-Dielectric Behavior of Polymers; 3.1. Glassy relaxation and rubbery relaxation; 3.2. Rheo-dielectric behavior of entangled chain; 3.2.1. Overview; 3.2.2. Flow-induced equilibration of entanglement segments; 3.2.3. Mutual equilibration number of entanglement segments; 3.2.4. Lack of flow-induced dielectric acceleration for linear chain 4. Rheo-Dielectric Behavior of Liquid Crystalline Materials; 4.1. Rheo-dielectric behavior of nematic 7CB; 4.2. Rheo-dielectric behavior of smectic 8CB; 5. Rheo-Dielectric Behavior of Salt/PEO Composite Systems; 5.1. Overview of rheo-dielectric behavior of LiClO₄/PEO System; 5.2. Flow-induced enhancement of Li⁺ mobility; 6. Rheo-Dielectric Behavior of Carbon Black Suspensions; 7. Concluding Remarks; Acknowledgment; Appendix A. Rheo-Dielectric Relaxation Function of Type A Chain; A.1. General; A.2. Analysis under steady shear; A.3. Analysis under LAOS Appendix B. Macdonald Theory for Electrode Polarization; References; 3. Morphology and Rheology of Immiscible Polymer Blends in Electric and Shear Flow Fields H. Orihara; 1. Introduction; 2. Experimental System for Observing Three-Dimensional Structures; 3. Droplet Coalescence Process Under Electric Fields; 3.1. 3D observation of coalescence process; 3.2. Scaling property and hierarchical model; 4. Shear Modulus of Columnar Structure Formed in an Immiscible Polymer Blend Under Electric Fields; 4.1. 3D observation of columnar structure and shear modulus; 4.2. Theoretical derivation of static shear modulus

Sommario/riassunto

Soft matter is a concept which covers polymers, liquid crystals, colloids, amphiphilic molecules, glasses, granular and biological materials. One of the fundamental characteristic features of soft matter is that it exhibits various mesoscopic structures originating from a large number of internal degrees of freedom of each molecule. Due to such intermediate structures, soft matter can easily be brought into non-equilibrium states and cause non-linear responses by imposing external fields such as an electric field, a mechanical stress or a shear flow. Volume 4 of the series in Soft Condensed Ma

2. Record Nr.	UNINA9910779194003321
Titolo	Teacher education in plural societies : an international review // edited by Maurice Craft
Pubbl/distr/stampa	Abingdon, Oxon : , : Routledge, , 2012
ISBN	1-136-45011-4 1-280-66059-7 9786613637529 1-136-45012-2 0-203-12541-X
Descrizione fisica	1 online resource (187 p.)
Collana	Routledge library editions: education ; ; 219
Altri autori (Persone)	CraftMaurice <1932->
Disciplina	370.71 370/.71
Soggetti	Teachers - Training of Multicultural education Cultural pluralism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published in 1996 by Falmer Press.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Teacher Educational in Plural Societies; Copyright Page; Contents; Foreword; Acknowledgments; 1. Cultural Diversity and Teacher Education: Maurice Craft; 2. Pluralism and Australian Teacher Education: Anne Hickling-Hudson and Marilyn McMeniman; 3. Teacher Education for a Multicultural Britain: Sally Tomlinson; 4. Multicultural Teacher Education in Canada: Ratna Ghosh; 5. Practice without Policy: Pluralist Teacher Education in Israel: Abraham Yogev; 6. Unity in Diversity: Teacher Education in Multicultural Malaysia: Molly Lee 7. Teacher Training and Community Relations in Northern Ireland: Sean Fulton and Anthony Gallagher8. Teacher Education and Pluralism in South Africa: Wally Morrow; 9. Training Teachers for a Multicultural Future in Spain: Carmen Gonzalo and Maria Villanueva; 10. Teacher Education in Sweden: An Intercultural Perspective: Gunlog Bredange; 11. Teacher Education and Multiculturalism in The Netherlands: Gerard de Kruif; 12. Educating Teachers for Cultural Diversity in the United States: Ken Zeichner; 13. Comparative Perspectives and Paradigms:

Sommario/riassunto

The educational implications of cultural pluralism attracted a good deal of attention in Western societies in the 1970s and 1980s, on the grounds of equality and human rights, maximising national talent, and maintaining social cohesion. Maurice Craft and the international contributors to this book highlight the potential of teacher education, and in this wide-ranging analytical review for its key role in providing for ethnic minority children, in respect of access and achievements, and also for all children to acquire informed and tolerant attitudes. This book makes an important contr
